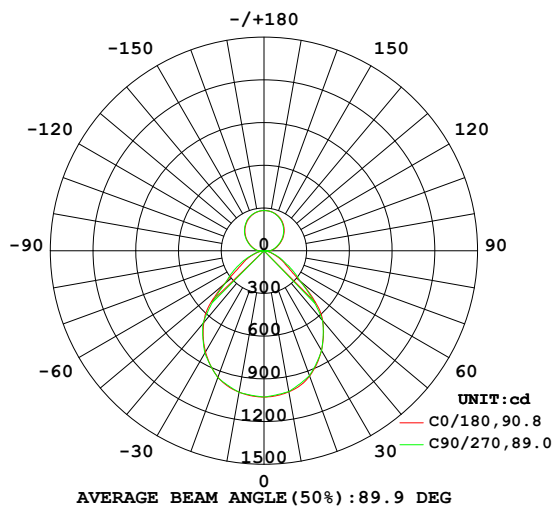


LUMINAIRE PHOTOMETRIC TEST REPORT

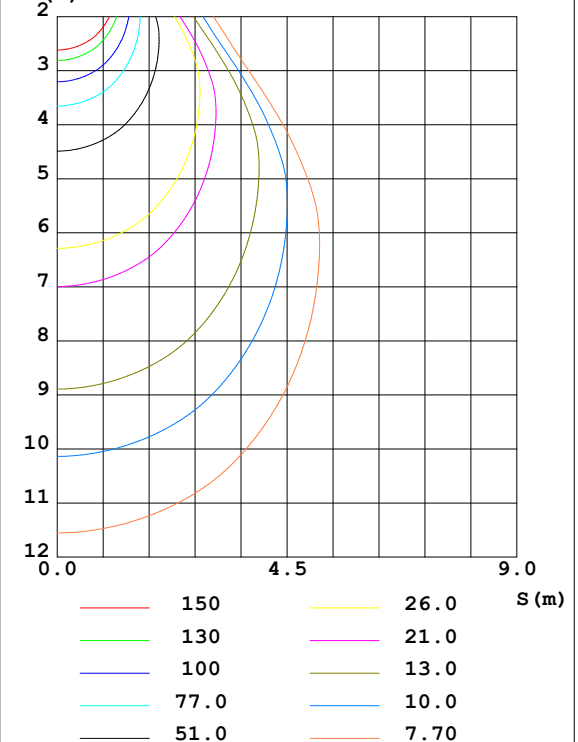
Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.09 lm/W			
MODEL	OSRAM-4000K	I <sub>max</sub> (cd)	1028	S/MH (C0/180)	1.19
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	2959.1	$\eta$ UP, DN (C0-180)	15.6, 33.9
NOMINAL FLUX (lm)	2959.12	CIE CLASS	SEMI-D.	$\eta$ UP, DN (C180-360)	15.5, 35.0
LAMPS INSIDE	1	$\eta$ up (%)	31.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.0	$\eta$ down (%)	68.9	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

### ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

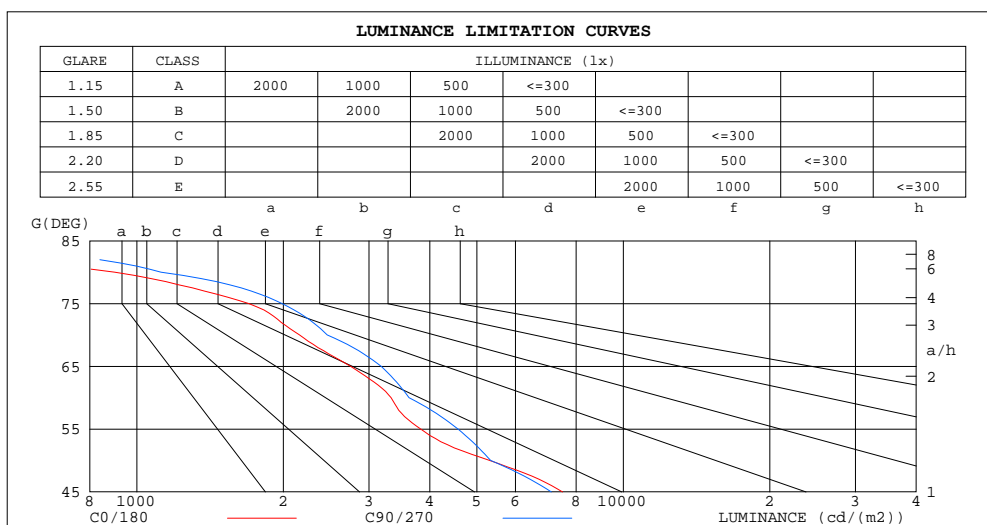
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	1006	1002	1004	999.3	1008	1004	1010	1006	0- 10	96.75	96.75	3.27,3.27
20	936.5	933.0	934.2	925.3	945.3	935.8	948.9	942.3	10- 20	275.3	372.1	12.6,12.6
30	807.7	805.8	809.1	805.6	821.4	821.2	830.2	820.1	20- 30	404.9	777.0	26.3,26.3
40	641.7	631.8	641.3	647.5	658.4	659.5	667.8	660.8	30- 40	459.4	1236	41.8,41.8
50	328.1	322.1	329.7	376.1	366.5	352.5	352.4	379.7	40- 50	390.9	1627	55,55
60	160.1	159.6	174.4	175.8	169.0	192.6	207.0	180.8	50- 60	229.2	1857	62.7,62.7
70	71.01	75.11	80.99	78.00	79.95	77.58	90.55	83.87	60- 70	123.2	1980	66.9,66.9
80	15.03	17.84	18.72	18.83	21.05	24.04	24.94	21.44	70- 80	52.46	2032	68.7,68.7
90	43.74	43.29	41.49	37.80	37.07	38.10	41.13	42.77	80- 90	6.616	2039	68.9,68.9
100	72.39	71.26	67.18	64.48	64.14	65.57	67.67	70.99	90-100	58.61	2097	70.9,70.9
110	105.2	103.7	98.84	96.15	94.99	96.60	99.97	103.5	100-110	88.35	2186	73.9,73.9
120	143.8	142.1	137.8	133.4	132.3	134.2	137.1	142.1	110-120	117.1	2303	77.8,77.8
130	182.8	181.4	177.1	172.5	171.5	172.8	176.0	181.1	120-130	141.0	2444	82.6,82.6
140	218.1	216.8	212.9	208.7	207.6	208.8	211.8	216.5	130-140	150.7	2595	87.7,87.7
150	247.2	246.1	243.0	239.5	238.4	239.6	242.8	246.8	140-150	143.0	2738	92.5,92.5
160	268.3	267.4	265.4	262.9	262.0	262.9	264.7	267.4	150-160	117.6	2855	96.5,96.5
170	280.3	279.7	278.9	277.5	277.1	277.6	278.6	279.8	160-170	77.10	2932	99.1,99.1
180	282.7	282.7	282.7	282.7	282.7	282.7	282.7	282.7	170-180	26.80	2959	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

### LUMINANCE LIMITATION CURVES

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	50	0
80	900	1121
75	1698	1989
70	2159	2463
65	2749	3177
60	3331	3626
55	3832	4572
50	5307	5334
45	7498	7110

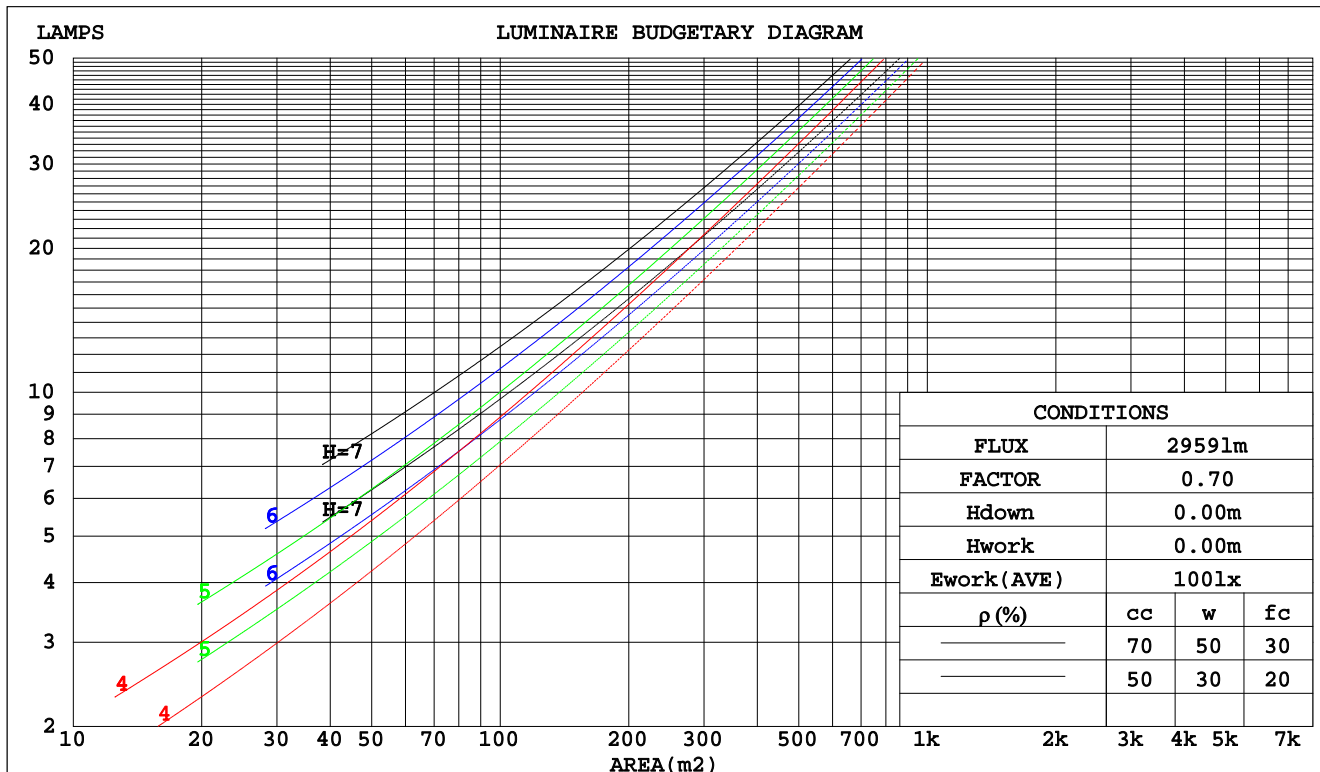
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0														
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.12	1.12	1.12	1.05	1.05	1.05	.94	.94	.94	.83	.83	.83	.73	.73	.73	.69														
1.0	.00	.96	.93	.94	.91	.89	.85	.82	.80	.76	.74	.72	.67	.66	.65	.61														
2.0	.89	.83	.78	.84	.79	.75	.76	.72	.69	.68	.65	.63	.61	.59	.57	.53														
3.0	.79	.72	.67	.75	.69	.64	.68	.63	.59	.61	.58	.54	.55	.52	.50	.47														
4.0	.71	.63	.58	.68	.61	.56	.61	.56	.52	.55	.51	.48	.50	.47	.44	.41														
5.0	.64	.56	.50	.61	.54	.49	.56	.50	.46	.50	.46	.42	.46	.42	.39	.36														
6.0	.58	.50	.45	.55	.48	.43	.51	.45	.40	.46	.41	.38	.42	.38	.35	.33														
7.0	.53	.45	.40	.50	.43	.38	.46	.40	.36	.42	.37	.34	.39	.35	.32	.29														
8.0	.48	.41	.36	.46	.39	.35	.42	.37	.33	.39	.34	.31	.36	.32	.29	.27														
9.0	.44	.37	.32	.43	.36	.31	.39	.33	.29	.36	.31	.28	.33	.29	.26	.24														
10.0	.41	.34	.29	.39	.33	.28	.36	.31	.27	.33	.29	.25	.31	.27	.24	.22														



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

## WEC AND CCEC

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.249	.142	.045	.233	.133	.042	.202	.116	.037	.174	.100	.032	.148	.086	.028		
2.0	.238	.130	.040	.223	.123	.038	.195	.109	.034	.170	.095	.030	.147	.083	.026		
3.0	.224	.119	.036	.210	.113	.034	.185	.100	.031	.162	.089	.027	.141	.078	.024		
4.0	.210	.109	.032	.198	.103	.031	.175	.093	.028	.154	.082	.025	.134	.073	.022		
5.0	.197	.100	.029	.185	.095	.028	.165	.086	.025	.145	.077	.023	.127	.068	.020		
6.0	.184	.092	.026	.174	.088	.025	.155	.079	.023	.137	.071	.021	.120	.063	.019		
7.0	.173	.086	.024	.164	.082	.023	.146	.074	.021	.130	.067	.019	.114	.059	.017		
8.0	.163	.080	.022	.155	.076	.022	.138	.069	.020	.123	.062	.018	.108	.056	.016		
9.0	.154	.075	.021	.146	.071	.020	.131	.065	.018	.117	.058	.017	.103	.052	.015		
10.0	.146	.070	.019	.139	.067	.019	.124	.061	.017	.111	.055	.016	.098	.049	.014		

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.427	.427	.427	.365	.365	.365	.249	.249	.249	.143	.143	.143	.046	.046	.046	
1.0	.415	.396	.378	.355	.340	.325	.243	.234	.225	.140	.135	.131	.045	.044	.042	
2.0	.406	.373	.345	.347	.321	.298	.238	.222	.208	.137	.129	.122	.044	.042	.040	
3.0	.397	.356	.323	.341	.307	.280	.234	.213	.196	.135	.125	.116	.043	.040	.038	
4.0	.390	.343	.307	.335	.296	.267	.230	.207	.188	.133	.121	.111	.043	.039	.037	
5.0	.383	.333	.296	.329	.288	.257	.227	.201	.182	.131	.118	.108	.042	.039	.036	
6.0	.377	.325	.288	.324	.281	.251	.223	.197	.177	.130	.116	.105	.042	.038	.035	
7.0	.371	.318	.282	.319	.276	.246	.220	.194	.174	.128	.114	.104	.041	.037	.034	
8.0	.365	.313	.277	.314	.272	.242	.218	.191	.171	.127	.112	.102	.041	.037	.034	
9.0	.360	.308	.273	.310	.268	.239	.215	.188	.169	.125	.111	.101	.041	.036	.033	
10.0	.355	.304	.271	.306	.264	.236	.212	.186	.168	.124	.110	.100	.040	.036	.033	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm										
NAME: SUGAR 350-U-26W-840					TYPE:Ceiling light			WEIGHT:		
SPEC.:4000K					DIM.: $\phi$ 350mm*H78mm			SERIAL No.:		
MFR.: NEKO LIGHTING AG					SUR.: $\phi$ 350mm			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	11.6	12.6	12.2	13.2	14.0	11.7	12.7	12.3	13.4	14.1
3H	11.9	12.8	12.6	13.5	14.3	12.1	13.0	12.8	13.7	14.5
4H	12.0	12.9	12.7	13.6	14.4	12.2	13.1	12.9	13.8	14.6
6H	12.0	12.8	12.7	13.5	14.3	12.2	13.0	12.9	13.7	14.6
8H	11.9	12.7	12.6	13.4	14.3	12.2	12.9	12.9	13.6	14.5
12H	11.8	12.6	12.6	13.3	14.2	12.1	12.8	12.8	13.5	14.4
4H 2H	11.6	12.5	12.3	13.2	14.0	11.7	12.6	12.4	13.3	14.1
3H	12.1	12.8	12.9	13.6	14.4	12.2	13.0	13.0	13.7	14.6
4H	12.3	12.9	13.0	13.7	14.6	12.4	13.1	13.2	13.8	14.7
6H	12.3	12.8	13.0	13.6	14.5	12.4	13.0	13.2	13.8	14.7
8H	12.2	12.7	13.0	13.5	14.5	12.4	12.9	13.2	13.7	14.6
12H	12.1	12.6	12.9	13.4	14.4	12.3	12.8	13.1	13.6	14.6
8H 4H	12.2	12.7	13.0	13.5	14.5	12.3	12.8	13.1	13.6	14.6
6H	12.2	12.6	13.1	13.5	14.5	12.4	12.8	13.2	13.6	14.6
8H	12.2	12.5	13.0	13.4	14.4	12.3	12.7	13.2	13.5	14.5
12H	12.1	12.4	13.0	13.3	14.3	12.2	12.6	13.1	13.4	14.5
12H 4H	12.1	12.6	12.9	13.4	14.4	12.3	12.7	13.1	13.5	14.5
6H	12.2	12.5	13.0	13.4	14.4	12.3	12.7	13.1	13.5	14.5
8H	12.1	12.4	13.0	13.3	14.3	12.3	12.6	13.1	13.4	14.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.1					+ 0.8 / - 0.9				
1.5H	+ 0.7 / - 1.0					+ 0.7 / - 1.1				
2.0H	+ 2.3 / - 1.6					+ 2.1 / - 1.6				

CIE Pub.117, 2959 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 3.8$ )

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:

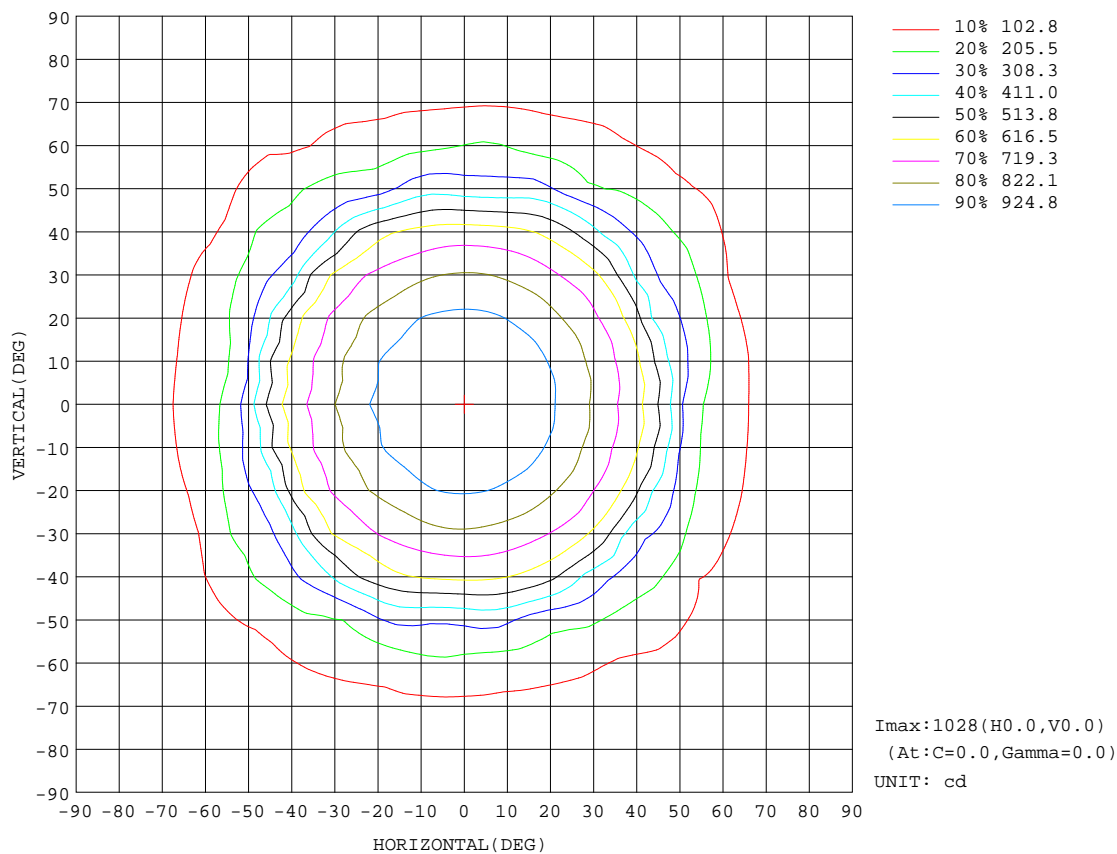
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	45	39	54	44	39	51	42	37	31
0.80	65	54	48	63	53	47	58	51	45	38
1.00	72	62	56	70	61	55	65	59	52	43
1.25	79	69	63	76	67	61	70	63	58	48
1.50	84	75	68	80	72	66	73	67	63	51
2.00	90	82	76	86	79	73	78	73	69	55
2.50	93	86	80	89	83	78	81	76	72	57
3.00	96	90	85	92	86	81	83	79	75	59
4.00	100	94	90	95	90	86	86	82	79	62
5.00	102	97	94	97	93	89	87	84	82	63
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

**ISOCANDELA DIAGRAM**

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:



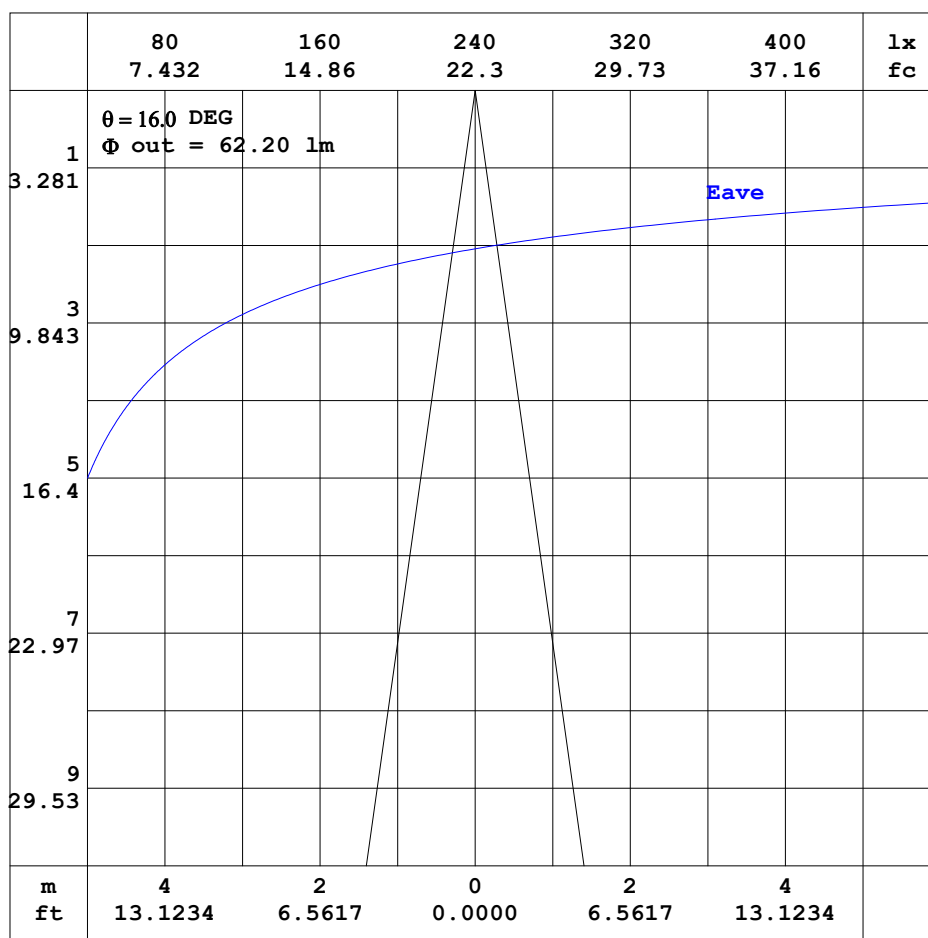
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:



AAI CURVES

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:



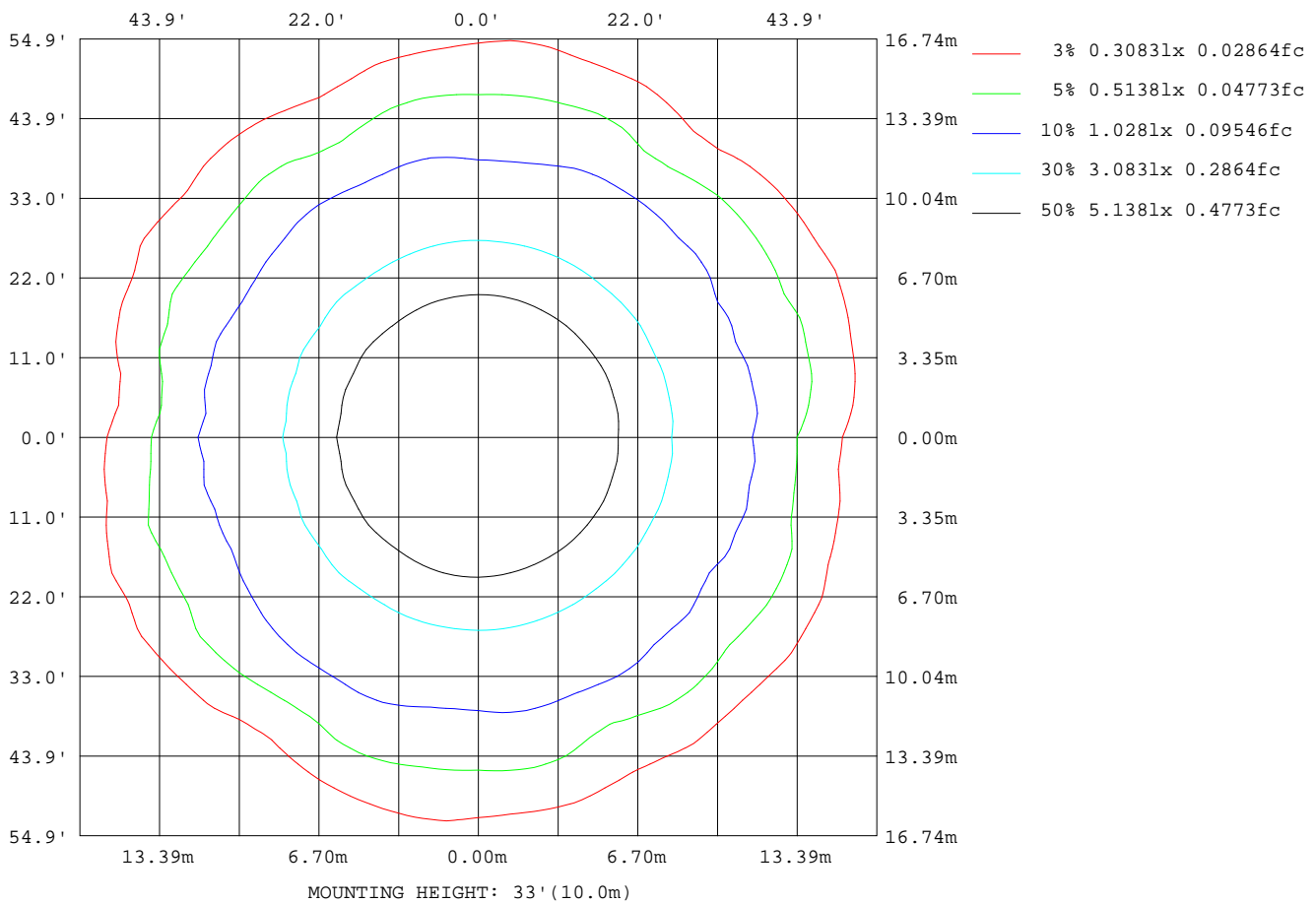
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

**ISOLUX DIAGRAM**

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

### LED Avg.L Report

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:

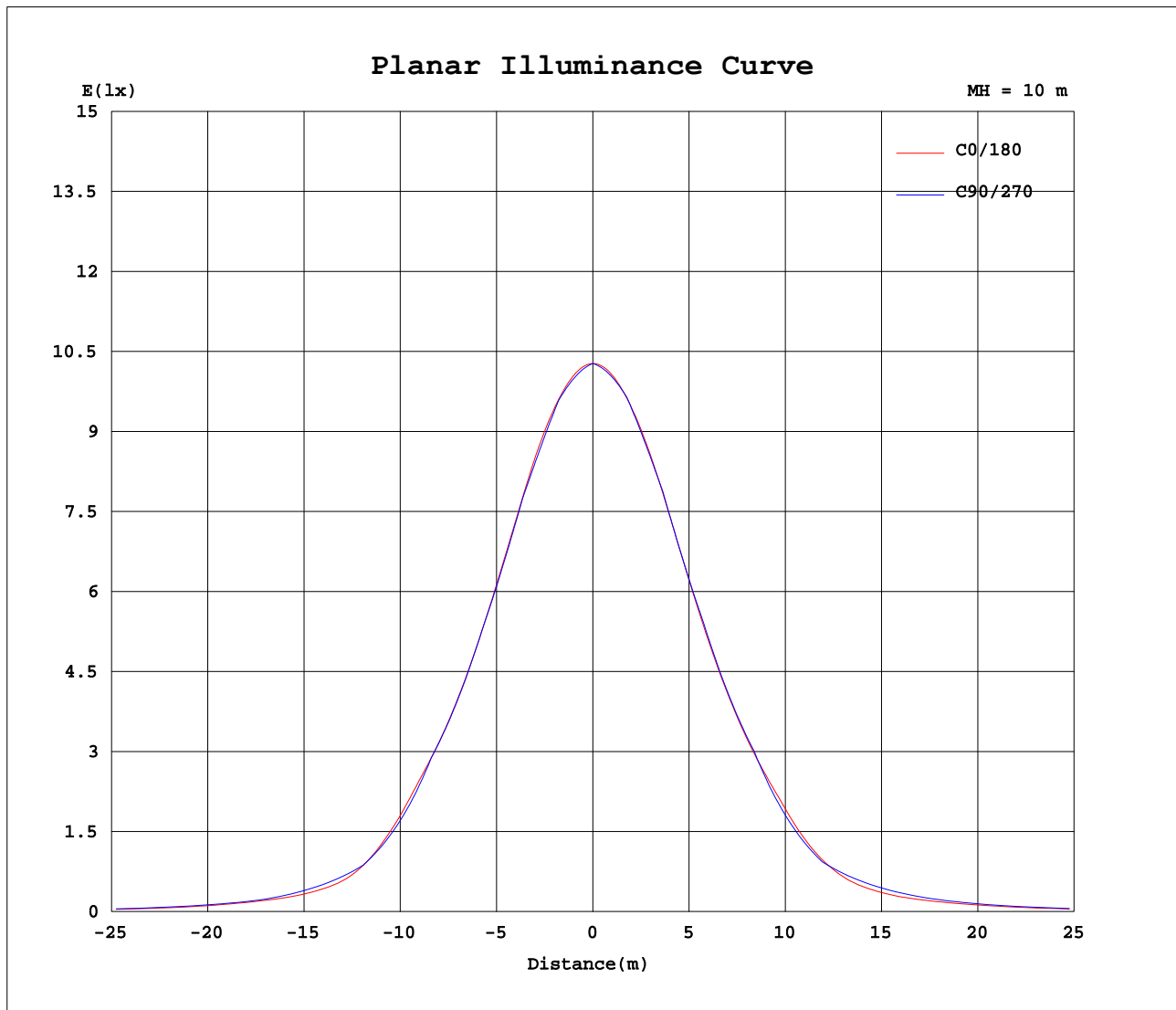
AvgL	cd/m2
L_0~180 (65) av	2926
L_0~180 (75) av	1854
L_0~180 (85) av	112
L_90~270 (65) av	3395
L_90~270 (75) av	2141
L_90~270 (85) av	0
L_45 (65) av	2949
L_45 (75) av	1880
L_45 (85) av	311

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 5.850m [K=1.7094]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm																	
NAME: SUGAR 350-U-26W-840									TYPE:Ceiling light						WEIGHT:		
SPEC.:4000K									DIM.: φ350mm*H78mm						SERIAL No.:		
MFR.: NEKO LIGHTING AG									SUR.:φ350mm						Shielding Angle:		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028
5	1022	1021	1020	1020	1019	1019	1018	1018	1018	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016
10	1006	1005	1004	1004	1003	1003	1003	1003	1003	1002	1002	1003	1003	1003	1004	1004	1004	1004	1004
15	980	979	979	979	979	978	977	977	978	977	975	974	973	972	971	970	970	969	969
20	937	936	938	939	936	935	935	934	933	933	932	930	929	930	930	931	932	933	934
25	877	879	882	879	877	877	878	880	876	873	873	872	872	872	872	872	872	872	872
30	808	811	814	808	808	812	812	808	807	806	805	805	802	802	802	803	805	807	809
35	728	735	734	729	734	733	729	730	733	731	727	725	722	723	723	725	725	726	725
40	642	652	646	643	644	636	633	635	632	632	627	629	632	633	635	638	640	642	641
45	510	536	511	519	490	487	470	461	491	487	478	489	504	504	501	503	502	494	483
50	328	346	334	353	344	345	315	327	335	322	336	350	347	331	326	342	353	348	330
55	211	208	216	222	249	256	255	243	234	241	242	233	217	213	225	248	257	256	252
60	160	156	159	162	153	164	167	183	168	160	167	171	165	163	166	169	164	163	174
65	112	111	111	110	105	97.9	115	121	121	113	106	107	113	116	118	120	120	123	129
70	71.0	74.3	76.2	77.6	76.4	78.7	78.1	76.8	78.5	75.1	70.5	74.6	76.3	74.1	72.6	75.6	77.5	82.2	81.0
75	42.3	45.5	46.2	43.7	43.0	44.4	42.8	46.2	47.6	42.3	39.5	43.0	44.0	42.5	42.1	45.7	47.9	50.1	49.5
80	15.0	18.7	17.2	17.2	18.3	18.2	19.3	21.4	20.4	17.8	16.7	17.3	16.5	15.8	15.4	16.4	17.8	17.5	18.7
85	0.42	0.87	0.96	0.95	2.35	2.72	0.95	0.75	0.96	1.47	1.69	1.71	1.40	1.11	0.78	0.50	0.26	0.07	0.00
90	43.7	41.5	40.0	39.1	39.1	39.5	40.3	41.4	42.4	43.3	43.3	43.1	42.7	42.5	0.00	0.00	41.9	41.7	41.5
95	57.3	55.8	54.9	54.6	55.3	56.2	57.1	57.0	56.8	56.5	56.4	56.2	56.1	55.7	55.3	54.9	54.6	54.3	53.9
100	72.4	72.3	72.3	72.2	72.2	72.1	72.0	71.8	71.5	71.3	71.0	70.7	70.4	70.0	69.5	68.9	68.3	67.7	67.2
105	88.8	88.8	88.7	88.6	88.4	88.1	87.9	87.6	87.3	86.9	86.5	86.0	85.5	85.0	84.5	84.0	83.4	82.9	82.4
110	105	106	106	106	106	105	105	105	104	104	103	103	102	101	101	100	99.9	99.3	98.8
115	124	124	125	125	124	124	124	123	123	122	122	121	121	120	120	119	118	118	117
120	144	144	144	144	144	144	144	143	143	142	142	142	141	140	140	139	138	138	138
125	164	164	164	164	164	164	164	163	163	162	162	161	161	160	160	159	158	158	158
130	183	183	183	183	183	183	183	182	182	181	181	181	180	180	179	178	178	177	177
135	201	201	201	202	202	201	201	201	200	200	199	199	199	198	197	197	196	196	196
140	218	218	218	218	218	218	218	218	217	217	216	216	216	215	215	214	214	213	213
145	234	234	234	234	234	234	234	233	233	232	232	232	232	231	230	230	230	229	229
150	247	247	247	247	247	247	247	247	246	246	246	246	245	245	244	244	244	243	243
155	259	259	259	259	259	259	259	258	258	258	258	257	257	257	256	256	256	255	255
160	268	268	268	268	268	268	268	268	267	267	267	267	267	267	266	266	266	266	265
165	275	276	276	276	276	275	275	275	275	275	275	275	275	274	274	274	274	274	273
170	280	280	280	280	280	280	280	280	280	280	280	280	280	279	279	279	279	279	279
175	283	283	283	283	283	283	282	282	282	282	282	282	282	282	282	282	282	282	282
180	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm		
NAME: SUGAR 350-U-26W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: $\phi$ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: $\phi$ 350mm	Shielding Angle:

Table--2

UNIT: cd

C (DEG) $\gamma$ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028
5	1015	1015	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1018	1019	1019	1020	1022	1023	1022
10	1004	1004	1003	1003	1002	1002	1001	1000	999	999	998	998	998	1000	1001	1003	1006	1008	1006
15	969	968	968	968	968	969	971	973	976	979	976	974	972	971	972	975	980	985	981
20	934	934	933	932	930	928	926	925	925	928	933	939	936	931	928	931	937	945	938
25	872	871	870	870	871	873	876	879	875	871	867	873	880	881	874	870	878	889	879
30	810	810	808	806	803	801	798	800	806	814	810	804	805	815	813	803	808	821	808
35	724	724	724	725	726	728	731	727	725	726	736	742	730	730	743	730	728	744	728
40	640	640	641	642	640	634	629	633	647	649	635	636	653	634	643	649	637	658	638
45	482	489	505	519	528	535	533	520	509	516	516	485	495	504	478	530	493	546	503
50	324	334	358	378	379	367	367	376	376	370	351	344	330	337	343	362	346	367	324
55	256	257	264	265	255	231	218	237	256	270	279	259	259	263	278	252	238	231	207
60	189	188	178	170	170	166	161	167	176	178	181	199	192	197	173	167	171	169	157
65	135	132	125	116	119	122	123	123	120	112	109	122	132	117	107	109	119	126	124
70	80.5	82.4	86.9	81.7	80.0	80.6	82.1	80.9	78.0	80.3	83.7	84.2	87.0	81.9	82.5	81.6	80.5	80.0	71.3
75	50.3	51.1	52.4	49.0	47.1	46.7	48.3	47.9	44.8	47.1	50.9	49.9	47.9	48.6	47.8	45.4	45.1	50.0	51.0
80	20.1	19.8	19.5	19.6	19.2	18.5	19.6	19.6	18.8	19.8	21.1	23.4	22.7	23.3	20.4	19.7	18.4	21.1	17.4
85	0.08	0.29	0.60	1.03	1.45	1.70	2.11	2.41	2.42	2.24	1.87	1.71	3.67	3.54	2.03	1.96	0.95	1.45	0.71
90	41.0	40.4	0.00	0.00	38.9	38.5	38.2	38.0	37.8	37.6	37.4	37.2	37.2	37.1	37.1	37.1	37.1	37.1	36.9
95	53.4	52.8	52.3	52.0	51.7	51.5	51.2	50.9	50.6	50.5	50.4	50.3	50.2	50.0	49.9	50.0	50.1	50.2	50.3
100	66.8	66.5	66.2	66.0	65.8	65.5	65.2	64.8	64.5	64.4	64.3	64.3	64.1	63.9	63.8	63.9	64.0	64.1	64.2
105	82.0	81.6	81.3	81.0	80.8	80.6	80.4	80.1	79.9	79.7	79.5	79.4	79.2	79.1	79.0	79.0	79.0	79.1	79.1
110	98.4	98.0	97.6	97.3	96.9	96.7	96.5	96.3	96.1	95.9	95.7	95.4	95.3	95.1	95.1	95.0	95.0	95.0	94.9
115	117	116	116	116	115	115	115	114	114	114	113	113	113	113	113	113	113	112	112
120	137	136	136	136	135	135	135	134	133	133	133	133	133	132	132	132	132	132	132
125	157	156	156	155	155	155	154	154	153	153	153	153	152	152	152	152	152	152	152
130	176	176	175	175	174	174	174	173	173	172	172	172	172	171	171	171	171	171	171
135	195	194	194	193	193	193	192	192	191	191	191	191	190	190	190	190	190	190	190
140	212	212	211	211	211	210	210	209	209	209	208	208	208	208	207	207	207	208	208
145	228	228	227	227	227	226	226	225	225	225	225	225	224	224	224	224	224	224	224
150	243	242	242	241	241	241	240	240	240	239	239	239	239	239	238	238	238	238	238
155	255	254	254	254	254	253	253	253	252	252	252	252	252	251	251	251	251	251	251
160	265	265	264	264	264	264	264	263	263	263	263	263	262	262	262	262	262	262	262
165	273	273	273	273	272	272	272	272	271	271	271	271	271	271	271	271	271	271	271
170	279	279	278	278	278	278	278	278	278	277	277	277	277	277	277	277	277	277	277
175	282	282	282	282	282	281	281	281	281	281	281	281	281	281	281	281	281	281	281
180	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm																		
NAME: SUGAR 350-U-26W-840									TYPE:Ceiling light					WEIGHT:				
SPEC.:4000K									DIM.: φ350mm*H78mm					SERIAL No.:				
MFR.: NEKO LIGHTING AG									SUR.:φ350mm					Shielding Angle:				

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028
5	1021	1020	1020	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019
10	1005	1003	1002	1002	1001	1002	1003	1004	1005	1006	1007	1008	1009	1009	1010	1010	1010	1010	1009
15	977	975	975	977	980	983	986	984	982	980	979	978	978	978	978	979	979	980	980
20	933	931	936	942	946	941	938	936	936	939	941	944	946	947	948	949	949	948	947
25	872	877	886	886	881	878	883	888	893	891	889	887	886	886	887	888	889	890	891
30	804	814	818	811	813	822	828	821	816	815	817	820	823	825	827	829	830	830	829
35	730	743	732	736	751	746	739	741	746	749	746	743	743	744	746	748	749	750	750
40	650	647	643	663	645	640	655	659	648	647	652	657	660	664	668	669	668	666	666
45	542	505	533	507	483	525	512	497	517	544	549	534	526	527	528	522	512	510	516
50	350	350	361	346	333	329	346	353	372	379	368	358	366	382	387	372	352	350	357
55	212	245	246	267	258	251	249	254	264	255	236	234	251	274	284	284	280	282	284
60	162	165	178	173	196	190	186	193	188	187	182	173	179	189	189	195	207	217	213
65	127	122	108	106	119	136	130	118	115	124	130	125	125	134	135	139	147	155	155
70	72.3	77.4	80.5	83.5	79.9	86.8	87.9	77.6	75.8	82.1	86.6	82.8	82.8	87.9	87.3	88.2	90.5	93.8	94.1
75	49.1	45.7	50.6	51.6	54.2	52.3	52.0	52.8	53.2	52.3	51.7	49.8	50.1	53.4	55.0	55.5	57.1	59.4	59.3
80	17.7	19.6	22.8	23.2	26.7	25.3	23.2	24.0	24.6	23.7	22.7	22.6	21.8	21.9	24.0	23.7	24.9	25.4	24.9
85	1.43	1.56	3.07	2.97	1.22	2.22	3.44	3.86	3.67	3.02	2.33	1.80	1.18	0.69	0.35	0.09	0.00	0.10	0.37
90	36.8	36.8	36.9	37.1	37.4	37.6	37.8	38.1	38.4	38.7	39.0	39.3	39.7	40.0	40.4	40.8	41.1	41.3	41.4
95	50.3	50.3	50.3	50.4	50.5	50.8	51.1	51.4	51.6	51.8	52.1	52.4	52.8	53.2	53.5	53.8	54.1	54.4	54.6
100	64.2	64.2	64.2	64.3	64.4	64.8	65.2	65.6	65.8	66.0	66.3	66.7	67.1	67.5	67.6	67.6	67.7	68.2	68.7
105	79.1	79.2	79.4	79.6	79.8	80.1	80.4	80.7	81.1	81.5	81.8	82.1	82.4	82.6	82.9	83.1	83.4	83.8	84.1
110	94.9	94.9	95.2	95.5	95.8	96.1	96.3	96.6	97.0	97.3	97.7	98.1	98.4	98.8	99.2	99.6	100.0	100	101
115	112	112	112	113	113	113	114	114	114	115	115	115	116	116	117	117	118	118	119
120	132	132	132	132	132	133	134	134	134	134	134	135	136	136	137	137	137	138	139
125	152	152	152	152	152	152	153	154	154	154	154	155	155	156	156	156	157	157	158
130	171	171	171	171	171	172	172	173	173	173	173	174	174	175	175	176	176	177	177
135	190	190	190	190	190	190	191	191	192	192	192	192	193	194	194	194	194	195	196
140	207	207	207	207	207	208	208	209	209	209	209	210	210	211	211	211	212	212	213
145	224	224	224	224	224	224	225	225	225	225	226	226	227	227	227	228	228	228	229
150	239	239	239	238	239	239	239	240	240	240	240	241	241	241	242	242	243	243	244
155	251	251	251	251	251	252	252	252	252	253	253	253	253	254	254	255	255	255	256
160	262	262	262	262	262	262	263	263	263	263	263	264	264	264	264	265	265	265	265
165	271	271	271	271	271	271	271	271	272	272	272	272	272	273	273	273	273	273	273
170	277	277	277	277	277	277	277	278	278	278	278	278	278	278	278	279	279	279	279
175	281	281	281	281	281	281	281	281	281	281	281	282	282	282	282	282	282	282	282
180	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.1275A P:27.13W PF:0.9600 Freq:49.90Hz Lamp Flux:2959.12x1 lm																	
NAME: SUGAR 350-U-26W-840									TYPE:Ceiling light						WEIGHT:		
SPEC.:4000K									DIM.: $\phi$ 350mm*H78mm						SERIAL No.:		
MFR.: NEKO LIGHTING AG									SUR.: $\phi$ 350mm						Shielding Angle:		

Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028				
5	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1020	1020	1020	1021	1021				
10	1009	1008	1008	1007	1006	1006	1006	1005	1006	1006	1005	1005	1005	1005	1005				
15	980	980	980	980	981	981	982	983	982	981	981	982	981	980	980				
20	946	944	943	942	941	942	942	942	941	942	941	941	942	940	938				
25	891	890	889	889	888	887	886	887	889	887	885	884	885	886	881				
30	827	826	824	823	824	822	820	819	820	823	823	819	818	820	814				
35	751	750	749	747	746	745	748	750	747	745	748	747	740	742	739				
40	667	666	665	664	661	657	661	664	665	656	648	656	653	652	656				
45	527	542	552	554	548	541	545	541	519	512	512	495	521	513	537				
50	376	399	406	402	399	393	380	391	380	348	353	345	363	365	369				
55	284	288	277	247	232	256	275	278	278	275	266	281	273	269	243				
60	198	191	193	187	180	180	181	184	194	196	204	190	184	173	169				
65	144	133	132	135	134	127	129	122	111	128	129	125	104	106	112				
70	93.2	90.5	88.9	89.1	91.1	87.6	83.9	85.2	89.0	88.8	85.2	84.5	85.2	84.4	81.4				
75	58.0	56.2	53.6	50.9	51.8	51.6	47.3	49.8	55.1	48.2	49.6	47.4	49.8	46.1	43.7				
80	23.7	23.2	22.4	21.1	21.9	22.5	21.4	21.2	21.3	22.6	23.3	22.5	21.7	21.3	19.3				
85	0.75	1.22	1.69	1.99	2.37	2.53	2.67	2.09	1.05	0.48	3.04	3.08	0.61	0.82	0.91				
90	41.5	41.6	41.8	42.0	42.3	42.5	42.8	43.0	43.2	43.4	43.5	43.6	43.7	43.7	43.7				
95	54.8	55.0	55.2	55.4	55.7	56.0	56.3	56.5	56.7	56.9	57.1	57.3	57.5	57.5	57.4				
100	69.3	69.6	69.8	70.0	70.3	70.7	71.0	71.3	71.5	71.8	72.0	72.1	72.3	72.3	72.4				
105	84.6	85.0	85.4	85.8	86.2	86.5	86.8	87.0	87.3	87.5	87.7	87.9	88.1	88.3	88.5				
110	101	102	102	102	103	103	103	104	104	104	105	105	105	105	105				
115	119	120	120	121	121	121	122	122	122	123	123	123	124	124	124				
120	139	140	140	140	141	141	142	142	143	143	143	144	144	144	144				
125	159	159	159	160	161	161	162	162	162	162	163	163	164	164	164				
130	178	178	179	179	180	180	181	181	182	182	182	183	183	183	183				
135	196	197	197	198	198	199	199	200	200	200	200	201	201	201	201				
140	214	214	214	215	215	216	217	217	217	217	218	218	218	218	218				
145	230	230	230	231	231	232	232	232	233	233	233	233	234	234	234				
150	244	244	244	245	245	246	247	247	247	246	247	247	247	247	247				
155	256	256	256	257	257	257	258	258	258	258	258	259	259	259	259				
160	266	266	266	266	267	267	267	268	268	268	268	268	268	268	268				
165	274	274	274	274	274	275	275	275	275	275	275	275	276	276	276				
170	279	279	279	279	280	280	280	280	280	280	280	280	280	280	280				
175	282	282	282	282	282	282	282	282	282	282	283	283	283	283	283				
180	283	283	283	283	283	283	283	283	283	283	283	283	283	283	283				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2019-11-28

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:5.850m [K=1.7094]  
Remarks: