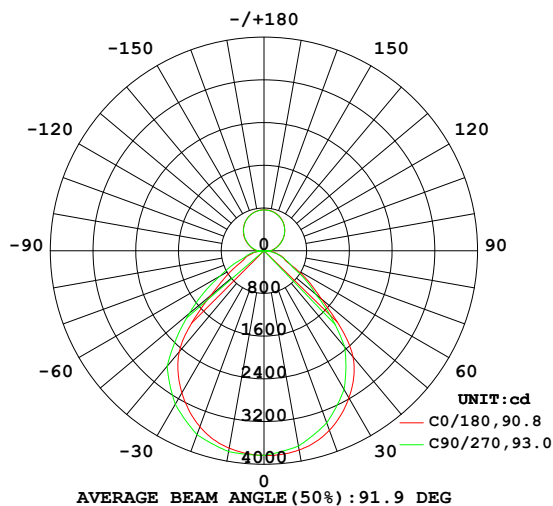


LUMINAIRE PHOTOMETRIC TEST REPORT

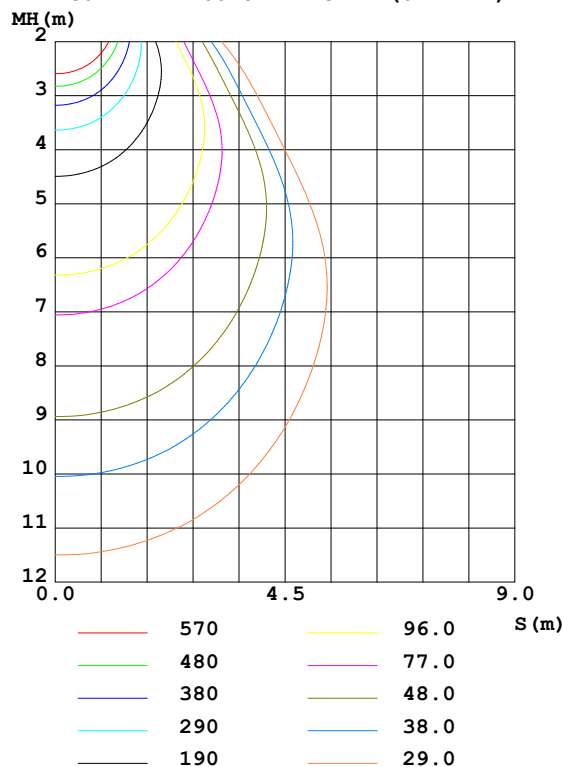
Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.01 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	3835	S/MH (C0/180)	1.20
NOMINAL POWER (W)	96	LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	10679	η UP,DN (C0-180)	12.2,35.6
NOMINAL FLUX (lm)	10679.3	CIE CLASS	SEMI-D.	η UP,DN (C180-360)	12.0,40.2
LAMPS INSIDE	1	η up (%)	24.2	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.0	η down (%)	75.8	CIBSE SHR MAX	1.35

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 Long
Test Date:2020-03-05

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

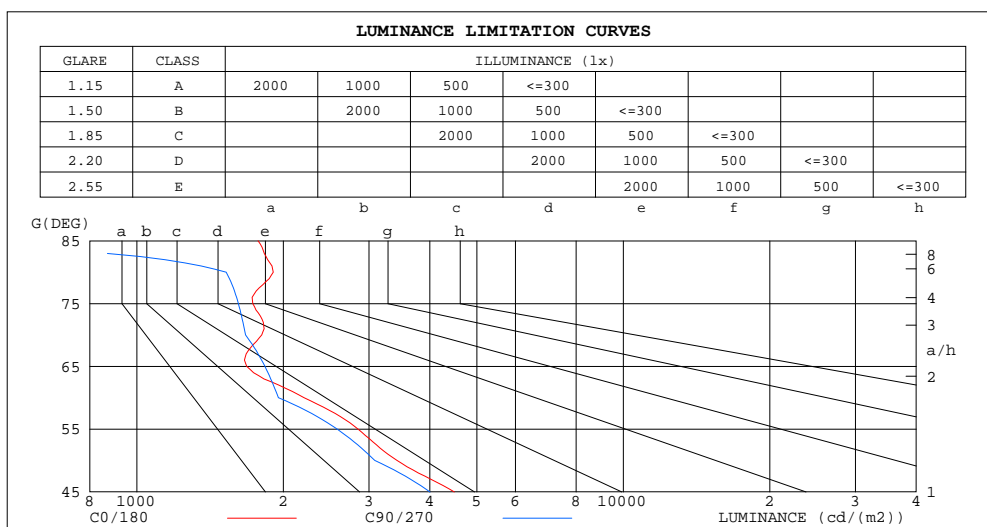
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	3788	3732	3715	3705	3754	3782	3820	3804	0- 10	361.8	361.8	3.39,3.39
20	3580	3465	3432	3421	3508	3582	3665	3636	10- 20	1034	1396	13.1,13.1
30	3181	3029	2999	2997	3076	3203	3321	3292	20- 30	1543	2939	27.5,27.5
40	2593	2389	2350	2319	2469	2646	2822	2778	30- 40	1784	4722	44.2,44.2
50	1405	1137	1266	1175	1299	1586	1819	1625	40- 50	1535	6257	58.6,58.6
60	704.4	581.5	623.9	704.0	638.1	676.0	948.1	905.5	50- 60	926.9	7184	67.3,67.3
70	394.2	343.7	365.2	383.3	367.1	411.6	407.9	471.8	60- 70	529.5	7714	72.2,72.2
80	211.5	156.0	169.2	168.9	181.2	208.5	220.8	252.2	70- 80	302.5	8016	75.1,75.1
90	105.0	97.93	122.4	135.1	124.0	116.3	106.9	93.46	80- 90	78.12	8094	75.8,75.8
100	193.1	185.2	203.1	215.0	204.9	196.4	189.7	182.6	90-100	168.8	8263	77.4,77.4
110	287.8	277.0	296.8	310.5	295.3	289.0	284.8	278.2	100-110	255.7	8519	79.8,79.8
120	396.3	382.5	401.0	414.4	400.4	395.4	390.2	385.9	110-120	338.4	8857	82.9,82.9
130	504.4	489.0	501.9	514.4	501.3	500.5	493.8	496.9	120-130	401.9	9259	86.7,86.7
140	595.8	584.2	593.5	601.3	592.6	593.3	588.1	584.2	130-140	422.2	9681	90.7,90.7
150	672.6	661.6	668.0	673.8	668.2	668.0	664.9	662.8	140-150	395.1	10076	94.4,94.4
160	727.4	718.1	722.1	726.2	723.3	721.8	720.5	719.5	150-160	321.3	10398	97.4,97.4
170	759.6	752.3	754.7	757.2	757.2	754.1	754.0	754.2	160-170	209.2	10607	99.3,99.3
180	769.2	769.2	769.2	769.2	769.2	769.2	769.2	769.2	170-180	72.54	10679	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ 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:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1775	0
80	1907	1526
75	1731	1617
70	1805	1672
65	1682	1833
60	2206	1954
55	2848	2580
50	3424	3083
45	4492	4004

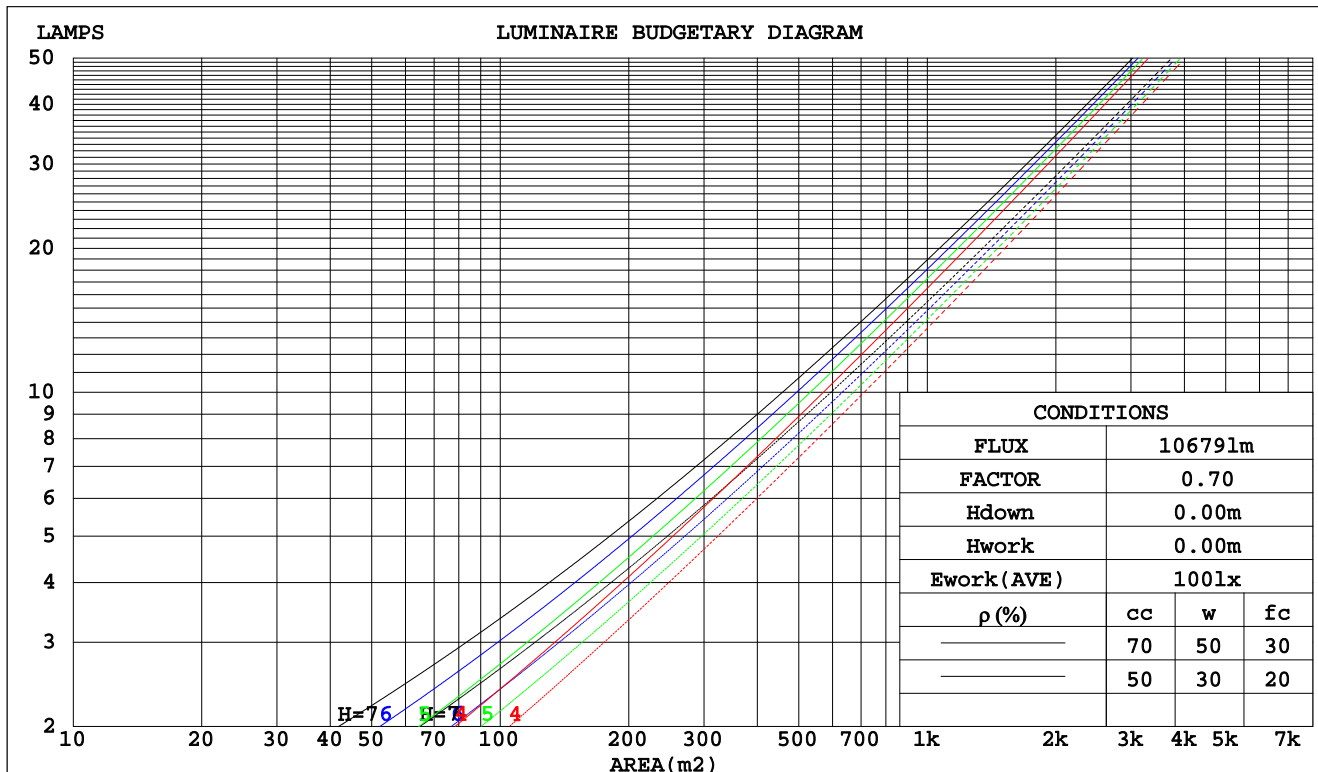
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: φ900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	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	1.13	1.13	1.13	1.08	1.08	1.08	.98	.98	.98	.88	.88	.88	.80	.80	.80	.76
1.0	1.01	.97	.94	.96	.93	.90	.88	.85	.83	.80	.78	.76	.72	.71	.70	.66
2.0	.89	.84	.79	.85	.80	.76	.78	.74	.71	.71	.68	.65	.65	.63	.61	.57
3.0	.80	.73	.67	.76	.70	.65	.70	.65	.61	.64	.60	.57	.59	.56	.53	.50
4.0	.71	.64	.58	.69	.62	.56	.63	.57	.53	.58	.53	.50	.53	.50	.47	.44
5.0	.64	.56	.51	.62	.55	.49	.57	.51	.47	.53	.48	.44	.49	.45	.41	.39
6.0	.58	.50	.45	.56	.49	.44	.52	.46	.41	.48	.43	.39	.45	.40	.37	.35
7.0	.53	.45	.40	.51	.44	.39	.48	.41	.37	.44	.39	.35	.41	.37	.33	.31
8.0	.49	.41	.36	.47	.40	.35	.44	.38	.33	.41	.35	.32	.38	.33	.30	.28
9.0	.45	.37	.32	.43	.36	.32	.40	.34	.30	.38	.32	.29	.35	.31	.27	.26
10.0	.41	.34	.29	.40	.33	.29	.37	.31	.27	.35	.30	.26	.33	.28	.25	.23



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:

WEC AND CCEC

Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: φ900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.260	.148	.047	.245	.140	.044	.219	.125	.040	.194	.112	.036	.171	.099	.032		
2.0	.246	.135	.041	.233	.128	.040	.209	.116	.036	.187	.105	.033	.167	.094	.030		
3.0	.230	.123	.037	.219	.117	.035	.197	.107	.032	.177	.097	.030	.158	.088	.027		
4.0	.215	.112	.033	.205	.107	.032	.185	.098	.029	.167	.089	.027	.150	.081	.025		
5.0	.201	.103	.030	.192	.098	.029	.174	.090	.027	.157	.083	.025	.141	.075	.023		
6.0	.188	.094	.027	.180	.091	.026	.163	.084	.024	.148	.077	.023	.133	.070	.021		
7.0	.177	.088	.025	.169	.084	.024	.154	.078	.022	.140	.072	.021	.126	.066	.019		
8.0	.167	.081	.023	.159	.078	.022	.145	.073	.021	.132	.067	.019	.120	.061	.018		
9.0	.157	.076	.021	.150	.073	.021	.137	.068	.019	.125	.063	.018	.114	.058	.017		
10.0	.149	.071	.020	.142	.069	.019	.130	.064	.018	.119	.059	.017	.108	.054	.016		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.375	.375	.375	.320	.320	.320	.219	.219	.219	.126	.126	.126	.040	.040	.040	
1.0	.363	.343	.324	.310	.294	.279	.212	.202	.193	.122	.117	.112	.039	.038	.036	
2.0	.353	.319	.291	.303	.275	.251	.207	.190	.175	.120	.111	.103	.038	.036	.033	
3.0	.345	.302	.268	.296	.261	.232	.203	.181	.163	.117	.106	.096	.038	.034	.031	
4.0	.338	.289	.252	.290	.250	.219	.199	.174	.154	.115	.102	.091	.037	.033	.030	
5.0	.331	.279	.241	.284	.242	.210	.196	.169	.148	.113	.099	.088	.037	.032	.029	
6.0	.324	.271	.233	.278	.235	.203	.192	.164	.144	.111	.097	.085	.036	.032	.028	
7.0	.318	.264	.227	.273	.229	.198	.189	.161	.140	.110	.095	.083	.035	.031	.028	
8.0	.312	.259	.222	.269	.225	.194	.186	.158	.137	.108	.093	.082	.035	.030	.027	
9.0	.307	.254	.219	.264	.221	.191	.183	.155	.135	.107	.092	.081	.035	.030	.027	
10.0	.302	.250	.216	.260	.217	.188	.180	.153	.134	.105	.090	.080	.034	.030	.026	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm											
NAME: SUGAR 900-U-90W-830						TYPE:Ceiling light			WEIGHT:0.2		
SPEC.:3000K						DIM.: \varnothing 900mm*H105mm			SERIAL No.:		
MFR.: NEKO LIGHTING AG						SUR.: \varnothing 900mm			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		5.7	6.8	6.3	7.4	8.0	5.5	6.6	6.1	7.2	7.8
	3H	6.4	7.4	7.0	8.0	8.6	6.2	7.2	6.8	7.8	8.5
	4H	6.7	7.6	7.3	8.2	8.9	6.5	7.5	7.2	8.1	8.8
	6H	7.0	7.9	7.7	8.5	9.2	6.8	7.7	7.5	8.3	9.0
	8H	7.1	7.9	7.8	8.6	9.3	6.9	7.7	7.5	8.3	9.1
	12H	7.2	8.0	7.8	8.6	9.4	6.8	7.6	7.5	8.3	9.0
4H	2H	5.8	6.7	6.4	7.3	8.0	5.6	6.5	6.2	7.1	7.8
	3H	6.6	7.4	7.3	8.1	8.8	6.5	7.3	7.1	7.9	8.7
	4H	7.1	7.8	7.8	8.5	9.3	6.9	7.7	7.6	8.3	9.1
	6H	7.5	8.1	8.2	8.8	9.7	7.4	8.0	8.1	8.7	9.5
	8H	7.7	8.2	8.4	9.0	9.8	7.5	8.0	8.2	8.8	9.6
	12H	7.8	8.3	8.5	9.0	9.9	7.4	7.9	8.2	8.7	9.5
8H	4H	7.1	7.7	7.9	8.4	9.3	7.0	7.6	7.7	8.3	9.1
	6H	7.7	8.2	8.5	8.9	9.8	7.6	8.0	8.3	8.8	9.7
	8H	7.9	8.4	8.7	9.1	10.0	7.7	8.1	8.5	8.9	9.8
	12H	8.1	8.5	8.9	9.2	10.2	7.7	8.0	8.5	8.8	9.7
12H	4H	7.1	7.6	7.8	8.4	9.2	7.0	7.5	7.7	8.2	9.1
	6H	7.7	8.1	8.5	8.9	9.8	7.6	8.0	8.4	8.8	9.7
	8H	8.0	8.3	8.8	9.1	10.0	7.7	8.1	8.5	8.9	9.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.6					+ 0.5 / - 0.6					
1.5H	+ 0.4 / - 0.4					+ 0.4 / - 0.4					
2.0H	+ 1.6 / - 1.1					+ 1.1 / - 0.9					

CIE Pub.117, 10679 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 8.2$)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: \varnothing 900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: \varnothing 900mm	Shielding Angle:

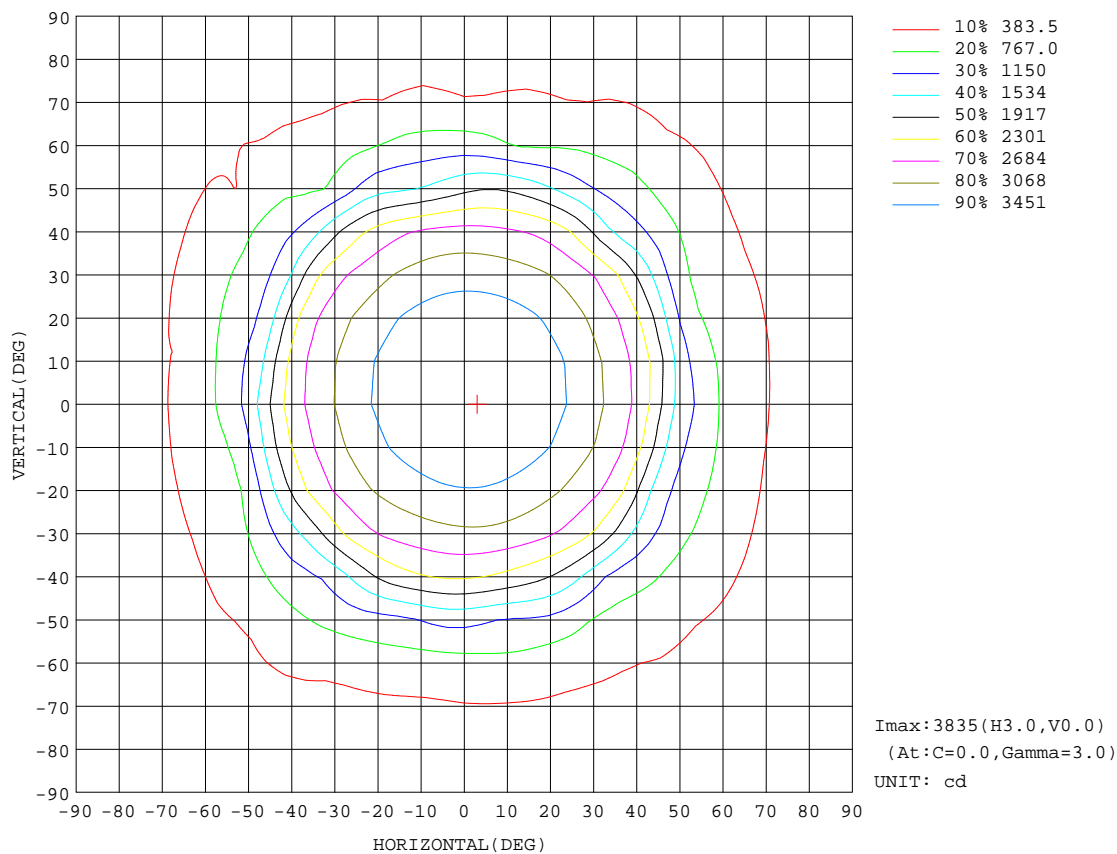
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	40	55	46	40	53	44	39	33
0.80	66	56	50	64	55	49	61	53	47	40
1.00	74	64	58	72	63	57	67	61	55	46
1.25	81	71	65	78	69	63	73	66	61	51
1.50	85	76	70	82	74	68	76	70	65	55
2.00	91	83	78	88	81	75	81	76	71	59
2.50	95	88	82	91	85	80	84	79	75	62
3.00	98	91	86	94	88	84	86	82	78	64
4.00	101	96	92	97	92	88	89	85	82	67
5.00	104	99	95	99	95	92	90	88	85	68
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 Long
 Test Date:2020-03-05

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:

ISOCANDELA DIAGRAM

Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:

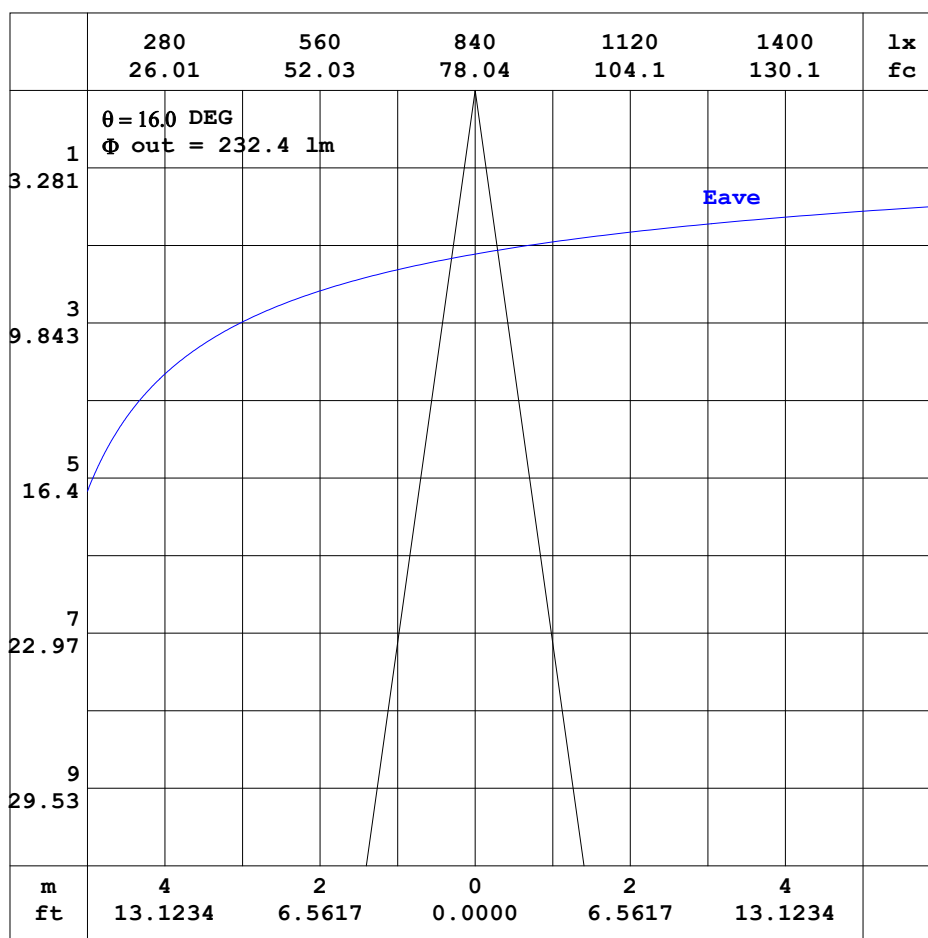


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:

AAI CURVES

Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:



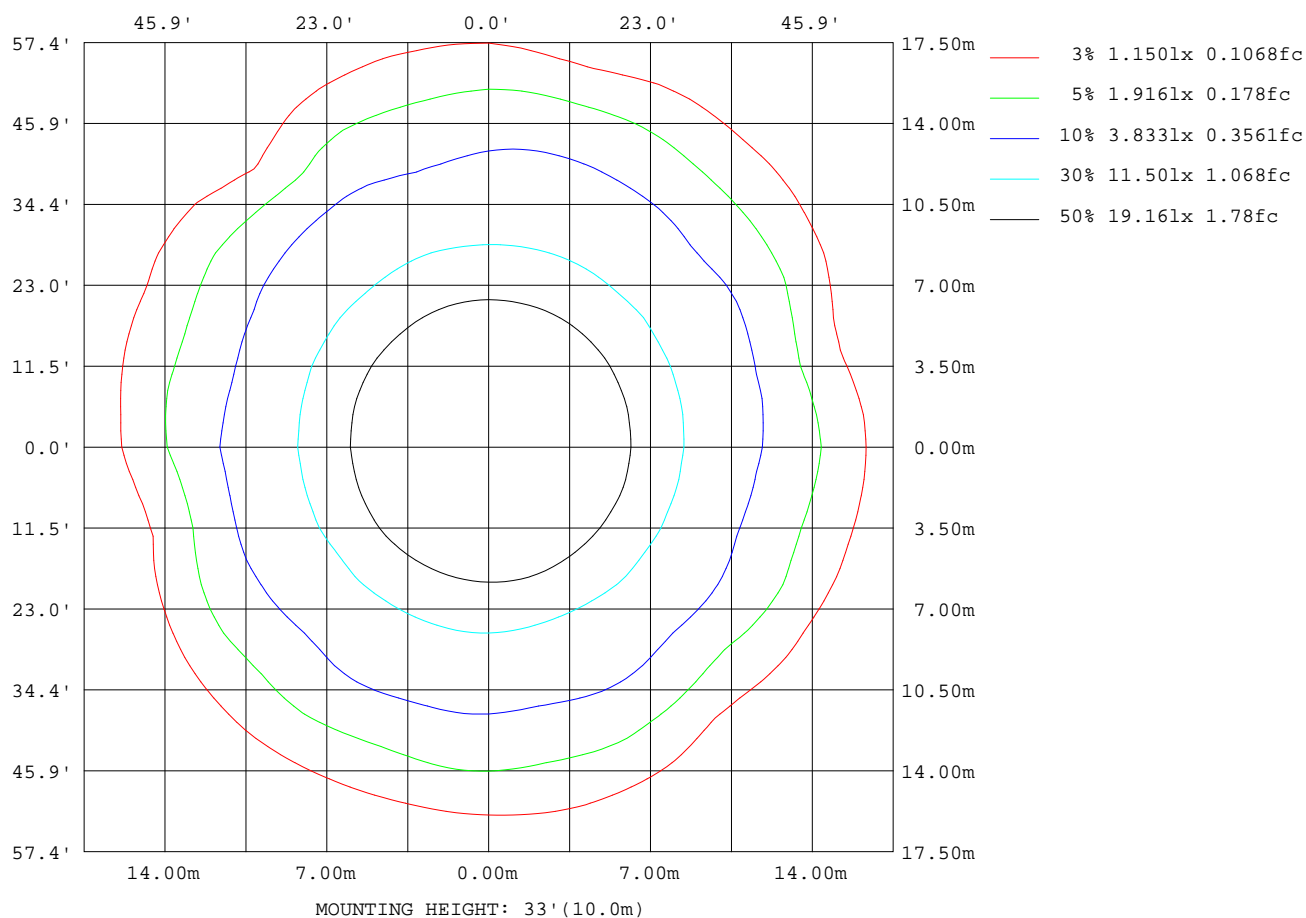
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:

ISOLUX DIAGRAM

Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 900mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:

LED Avg.L Report

Test:U:220.6V I:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: φ900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	Shielding Angle:

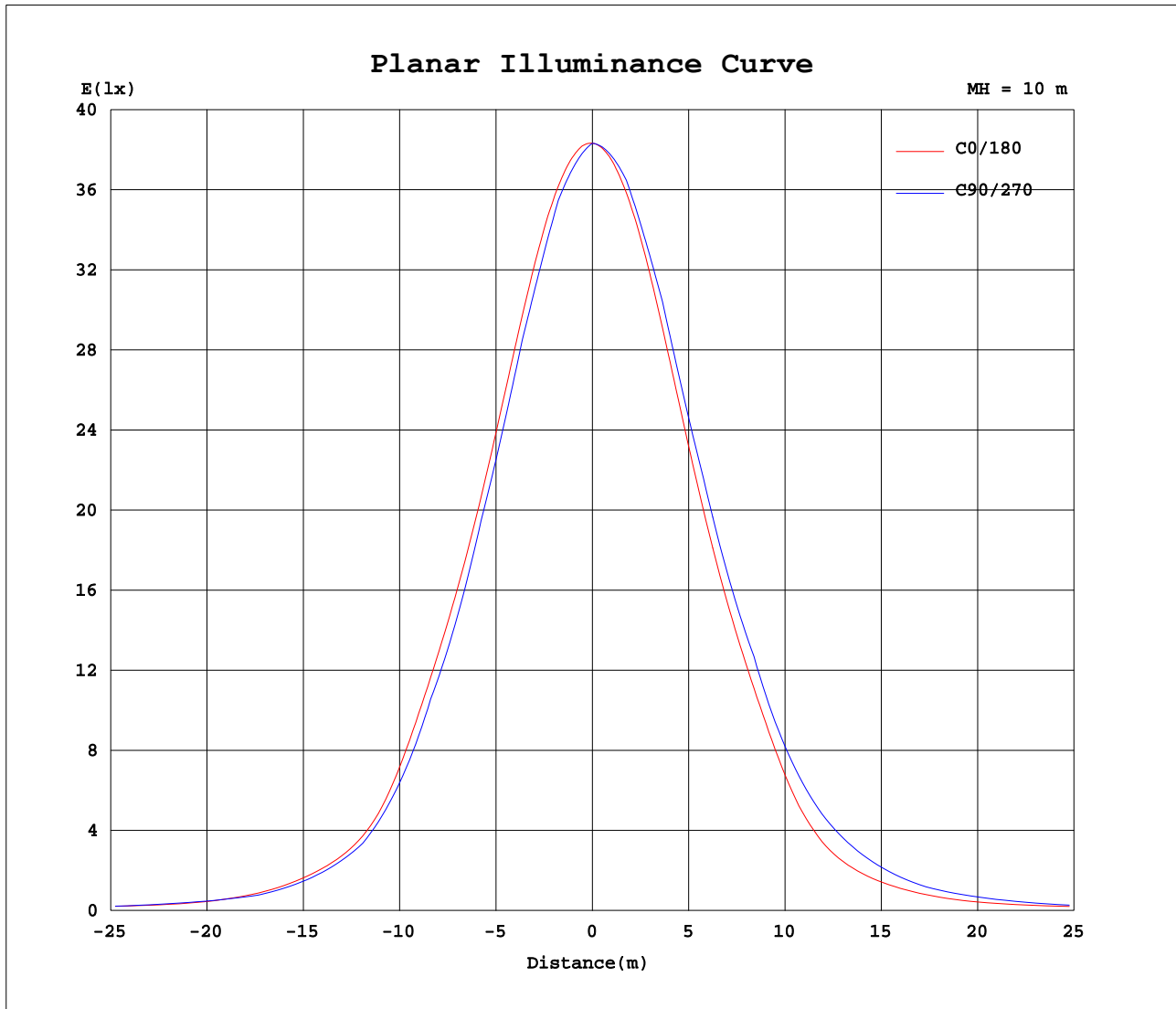
AvgL	cd/m2
L_0~180 (65) av	1652
L_0~180 (75) av	1642
L_0~180 (85) av	1607
L_90~270 (65) av	2173
L_90~270 (75) av	1759
L_90~270 (85) av	0
L_45 (65) av	2026
L_45 (75) av	1791
L_45 (85) av	1029

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason Long
Test Date: 2020-03-05

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:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: φ900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	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	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833
5	3827	3822	3817	3812	3808	3804	3800	3797	3793	3791	3788	3786	3783	3781	3779	3777	3776	3774	3774
10	3788	3778	3769	3760	3753	3747	3741	3737	3734	3732	3729	3726	3723	3722	3721	3719	3718	3716	3715
15	3709	3693	3679	3668	3660	3654	3651	3648	3648	3637	3624	3613	3605	3597	3589	3585	3580	3577	3574
20	3580	3558	3541	3529	3522	3519	3514	3494	3478	3465	3456	3450	3445	3444	3441	3441	3438	3436	3432
25	3402	3376	3358	3349	3346	3330	3305	3288	3277	3270	3268	3258	3249	3242	3238	3232	3227	3221	3216
30	3181	3155	3140	3136	3120	3089	3067	3055	3047	3029	3018	3012	3011	3012	3013	3013	3012	3006	2999
35	2925	2894	2882	2881	2839	2815	2804	2772	2750	2744	2747	2754	2718	2690	2673	2666	2667	2671	2675
40	2593	2539	2522	2480	2440	2449	2409	2384	2392	2389	2332	2298	2278	2266	2268	2281	2303	2329	2350
45	2028	1927	1892	1822	1792	1819	1833	1859	1821	1778	1769	1787	1808	1804	1781	1759	1756	1779	1808
50	1405	1322	1268	1235	1226	1271	1288	1258	1196	1137	1217	1287	1325	1322	1277	1219	1195	1223	1266
55	1043	1006	969	939	937	954	921	869	825	804	814	839	894	931	932	923	919	931	945
60	704	704	704	694	683	640	621	643	624	581	583	617	638	640	652	677	678	650	624
65	454	456	500	531	494	447	449	456	471	455	450	461	458	457	481	513	522	510	495
70	394	383	382	380	375	368	354	359	358	344	339	344	351	361	370	373	372	371	365
75	286	290	272	254	258	268	260	256	249	252	244	240	250	263	274	274	272	273	267
80	211	184	177	169	176	177	170	160	152	156	155	155	160	165	179	181	174	177	169
85	98.8	71.9	74.7	72.7	69.8	66.7	64.1	59.0	50.1	41.7	34.0	27.3	21.0	15.0	10.6	6.13	2.63	0.67	0.00
90	105	103	101	98.6	95.2	92.2	90.3	91.7	94.4	97.9	102	106	110	112	0.00	0.00	118	120	122
95	151	150	148	146	143	141	139	140	142	144	146	147	149	150	152	154	156	159	161
100	193	191	189	187	184	182	180	181	183	185	187	189	191	192	194	196	198	201	203
105	239	237	235	233	230	227	225	226	227	230	232	234	237	239	240	242	245	247	249
110	288	286	284	282	279	276	274	274	275	277	279	282	285	287	290	292	294	295	297
115	340	339	337	334	330	326	323	324	326	328	331	335	338	340	342	344	345	347	348
120	396	395	393	391	386	381	377	378	379	382	386	390	394	396	397	398	400	400	401
125	452	452	450	447	441	436	432	432	434	436	440	444	448	451	452	453	453	452	452
130	504	505	503	500	494	487	481	482	485	489	492	495	498	501	503	504	504	503	502
135	551	550	548	545	540	535	531	533	535	538	540	542	543	544	545	545	547	548	549
140	596	593	589	586	583	579	578	579	581	584	585	586	587	587	588	589	591	592	593
145	637	633	630	627	624	621	619	621	623	625	626	627	627	628	629	630	631	632	633
150	673	669	666	663	660	657	656	657	659	662	662	663	663	664	664	665	666	667	668
155	703	699	696	693	691	689	687	689	691	693	693	694	694	694	695	695	696	697	698
160	727	724	721	718	716	714	714	715	716	718	719	719	719	719	720	720	721	722	722
165	746	743	740	737	735	734	734	735	736	738	738	739	739	739	740	740	740	741	741
170	760	756	753	751	750	749	749	750	751	752	753	753	753	753	753	754	754	754	755
175	767	764	761	759	758	758	758	759	760	761	761	762	762	762	762	762	762	763	763
180	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm		
NAME: SUGAR 900-U-90W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: φ900mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ900mm	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833
5	3773	3773	3773	3773	3773	3774	3775	3776	3777	3779	3782	3785	3788	3792	3796	3801	3805	3811	3810
10	3713	3712	3710	3709	3707	3706	3705	3705	3705	3705	3706	3708	3712	3718	3725	3733	3743	3754	3753
15	3572	3571	3570	3572	3574	3576	3580	3587	3596	3603	3601	3602	3604	3609	3617	3628	3642	3659	3657
20	3430	3426	3423	3419	3415	3413	3413	3416	3421	3429	3439	3452	3453	3453	3458	3469	3486	3508	3506
25	3211	3207	3205	3204	3206	3213	3224	3234	3231	3230	3233	3239	3251	3258	3258	3267	3285	3311	3310
30	2990	2980	2974	2969	2969	2972	2979	2986	2997	3014	3010	3004	3007	3017	3023	3027	3045	3076	3077
35	2674	2670	2666	2668	2678	2698	2726	2717	2706	2701	2715	2744	2728	2727	2745	2748	2766	2802	2806
40	2358	2351	2339	2329	2319	2303	2290	2295	2319	2294	2279	2318	2382	2361	2375	2399	2417	2469	2457
45	1821	1817	1814	1830	1850	1834	1769	1726	1720	1726	1726	1764	1821	1838	1824	1846	1854	1917	1860
50	1279	1258	1237	1252	1299	1326	1303	1240	1175	1226	1269	1278	1280	1229	1173	1167	1204	1299	1274
55	943	921	898	891	905	930	952	944	924	930	945	921	872	803	730	747	809	914	951
60	613	613	630	647	652	662	679	703	704	682	656	635	615	607	577	593	620	638	636
65	479	469	475	478	464	445	440	495	522	486	429	444	459	456	455	463	462	438	409
70	349	338	340	346	348	350	354	372	383	373	353	340	332	312	308	331	354	367	375
75	254	244	238	241	249	259	262	261	268	267	257	236	218	206	212	220	240	257	266
80	160	152	141	143	156	165	173	171	169	168	158	150	133	123	118	113	128	181	202
85	0.61	2.29	4.71	8.40	14.3	21.6	30.9	38.9	46.0	55.7	57.4	57.9	56.2	51.6	50.0	52.4	53.2	80.0	88.8
90	124	126	0.00	0.00	131	133	134	135	135	135	134	133	132	131	130	128	126	124	123
95	162	164	165	168	170	172	173	173	173	173	173	173	171	170	168	166	165	164	163
100	205	206	208	210	212	214	215	215	215	215	216	215	214	211	209	208	206	205	203
105	250	251	252	254	257	259	260	261	262	262	262	262	259	255	252	251	250	249	248
110	298	298	299	302	305	307	309	310	310	310	310	308	305	301	298	296	296	295	294
115	348	349	350	352	355	358	359	360	361	360	360	358	355	351	348	347	347	347	346
120	401	401	402	404	407	410	412	414	414	414	413	411	408	404	401	400	400	400	400
125	452	453	454	457	460	463	465	466	466	465	463	461	458	455	453	453	453	454	455
130	502	503	505	508	511	513	514	515	514	513	512	510	508	506	504	502	502	501	501
135	550	551	552	554	556	558	559	559	558	558	558	557	555	553	551	550	549	548	547
140	594	595	596	598	599	601	601	601	601	601	601	600	599	597	595	594	593	593	591
145	634	634	635	637	638	640	640	640	640	640	640	639	638	636	635	634	633	633	631
150	669	669	670	671	672	673	674	674	674	674	674	673	672	671	670	669	669	668	666
155	698	699	699	700	701	702	703	703	703	703	703	702	701	700	699	699	699	698	696
160	723	723	724	724	725	726	726	726	726	726	726	726	725	725	724	724	724	723	721
165	741	742	742	743	743	744	744	744	744	745	745	744	744	744	743	743	743	743	741
170	755	755	755	756	756	757	757	757	757	757	757	758	757	757	757	757	758	757	755
175	763	763	763	764	764	764	764	764	765	765	765	765	765	765	765	766	766	766	764
180	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm																		
NAME: SUGAR 900-U-90W-830									TYPE:Ceiling light					WEIGHT:0.2				
SPEC.:3000K									DIM.: φ900mm*H105mm					SERIAL No.:				
MFR.: NEKO LIGHTING AG									SUR.:φ900mm					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	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833
5	3810	3810	3810	3810	3811	3812	3813	3815	3816	3818	3819	3820	3822	3823	3824	3825	3826	3827	3827
10	3753	3754	3757	3760	3765	3770	3776	3782	3787	3793	3798	3803	3807	3811	3814	3817	3820	3820	3820
15	3658	3661	3668	3677	3689	3701	3715	3717	3718	3720	3724	3727	3730	3734	3737	3740	3743	3744	3746
20	3510	3519	3533	3551	3568	3569	3574	3582	3591	3603	3615	3627	3639	3647	3655	3662	3665	3668	3668
25	3318	3333	3356	3369	3374	3385	3400	3419	3442	3451	3456	3464	3472	3479	3485	3490	3493	3496	3498
30	3090	3116	3135	3140	3155	3178	3201	3203	3211	3224	3243	3260	3278	3295	3308	3316	3321	3321	3320
35	2828	2863	2869	2889	2920	2924	2927	2941	2962	2989	3000	3017	3031	3047	3059	3067	3071	3070	3067
40	2481	2497	2522	2577	2581	2602	2633	2646	2640	2663	2696	2730	2760	2784	2803	2817	2822	2816	2807
45	1869	1863	1922	1973	2018	2129	2159	2174	2218	2292	2323	2302	2267	2242	2245	2275	2320	2359	2378
50	1257	1233	1257	1314	1363	1464	1524	1586	1634	1671	1719	1719	1666	1630	1650	1719	1819	1903	1934
55	971	958	955	979	1024	1068	1053	1021	996	1004	1146	1239	1249	1254	1280	1330	1384	1410	1401
60	676	718	735	730	761	762	751	676	669	734	826	883	912	940	942	950	948	909	852
65	437	513	536	507	468	468	536	549	553	574	601	625	652	695	708	697	678	659	630
70	387	400	422	409	375	396	403	412	413	420	445	453	439	465	484	448	408	417	444
75	275	277	275	297	313	305	296	312	288	288	318	330	321	347	363	336	314	322	340
80	217	211	222	228	225	196	199	209	202	202	217	226	228	248	249	226	221	229	239
85	102	108	104	116	110	91.2	78.0	61.4	48.4	37.6	29.2	21.2	13.8	8.46	3.77	0.86	0.00	0.87	3.63
90	123	124	126	127	127	124	120	116	115	115	115	114	112	111	110	109	107	103	99.4
95	162	162	164	165	166	163	159	155	154	153	153	152	151	150	149	149	148	148	147
100	202	202	204	206	207	204	200	196	196	195	195	193	192	190	190	190	190	189	188
105	247	246	249	251	253	249	245	241	240	240	241	240	239	238	237	237	236	235	233
110	294	294	296	297	298	296	292	289	289	289	290	289	289	288	287	286	285	282	280
115	346	346	348	350	351	348	345	341	342	343	344	343	342	341	339	337	335	333	331
120	399	399	401	404	405	402	399	395	397	399	400	400	399	397	395	393	390	388	385
125	455	456	457	458	458	455	452	449	451	453	455	455	455	453	450	447	444	441	439
130	502	503	505	508	509	507	504	500	500	501	502	504	505	505	502	498	494	492	491
135	545	545	549	552	555	554	551	549	548	548	548	547	546	545	544	544	543	542	542
140	589	589	592	595	598	597	595	593	593	593	593	592	591	590	589	589	588	588	587
145	629	629	631	634	637	636	635	633	633	633	633	632	631	631	630	630	629	629	628
150	664	663	665	668	671	670	669	668	668	668	668	667	667	666	666	665	665	665	665
155	694	693	695	697	699	699	698	698	698	698	698	697	697	696	696	696	695	695	695
160	719	717	719	721	723	723	722	722	722	722	722	722	721	721	721	721	720	720	720
165	738	736	737	739	741	741	741	741	741	741	741	741	741	740	740	740	740	740	740
170	752	750	751	752	753	754	754	754	754	754	755	754	754	754	754	754	754	754	754
175	761	758	758	759	760	761	761	762	762	762	762	762	762	762	762	762	762	762	763
180	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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:0.4322A P:95.34W PF:0 Freq:0Hz Lamp Flux:10679.3x1 lm																	
NAME: SUGAR 900-U-90W-830									TYPE:Ceiling light						WEIGHT:0.2		
SPEC.:3000K									DIM.: φ900mm*H105mm						SERIAL No.:		
MFR.: NEKO LIGHTING AG									SUR.:φ900mm						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	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833	3833				
5	3827	3828	3828	3828	3828	3828	3828	3827	3827	3826	3826	3826	3826	3826	3826				
10	3820	3819	3817	3815	3811	3808	3804	3801	3798	3795	3792	3790	3788	3788	3788				
15	3747	3747	3747	3748	3750	3752	3755	3755	3746	3737	3728	3720	3714	3710	3708				
20	3664	3661	3657	3650	3645	3640	3636	3634	3634	3636	3622	3606	3593	3584	3579				
25	3498	3501	3500	3504	3506	3506	3490	3477	3466	3459	3458	3447	3424	3409	3401				
30	3316	3313	3309	3304	3300	3296	3292	3290	3270	3250	3237	3233	3216	3193	3181				
35	3066	3068	3073	3081	3090	3074	3057	3038	3025	3013	2986	2970	2970	2941	2924				
40	2797	2794	2791	2786	2773	2761	2778	2761	2721	2698	2694	2659	2649	2636	2602				
45	2382	2389	2406	2423	2390	2306	2256	2276	2330	2260	2238	2218	2178	2180	2080				
50	1923	1898	1872	1849	1813	1735	1625	1639	1693	1695	1628	1551	1486	1487	1440				
55	1381	1373	1354	1307	1263	1240	1206	1187	1184	1156	1045	956	902	959	1010				
60	824	865	919	933	920	905	906	884	840	803	735	664	662	690	713				
65	609	615	637	646	639	652	660	620	563	557	567	539	524	524	503				
70	467	462	457	469	490	494	472	429	430	426	411	389	382	398	405				
75	353	343	328	334	362	366	352	335	327	319	297	289	293	289	284				
80	243	238	228	231	249	260	252	241	218	213	205	194	192	189	202				
85	8.25	14.4	21.5	31.2	45.9	64.6	80.1	97.4	106	114	107	101	99.8	98.4	100				
90	96.0	94.9	94.5	94.5	94.0	93.6	93.5	93.7	94.2	94.9	95.6	96.5	97.8	99.7	102				
95	146	145	144	143	143	142	142	142	143	143	145	146	148	149	150				
100	187	186	185	185	184	183	183	183	184	185	187	189	190	191	192				
105	232	231	230	230	229	228	228	229	230	231	233	234	235	237	238				
110	278	278	278	278	278	278	278	279	280	281	281	282	283	284	286				
115	329	329	329	329	330	331	332	331	330	330	331	332	333	335	337				
120	383	383	383	384	385	386	386	385	385	385	385	386	388	390	393				
125	438	438	439	440	441	442	443	442	441	440	441	441	443	445	449				
130	491	491	492	493	495	496	497	495	492	490	491	494	496	499	501				
135	541	540	539	539	541	543	544	543	541	540	542	544	546	548	550				
140	587	586	585	584	584	584	584	585	585	586	588	590	592	594	595				
145	628	627	626	626	626	626	626	626	627	628	630	632	634	635	636				
150	664	664	663	662	662	662	663	663	664	665	666	668	670	671	672				
155	695	694	694	693	693	694	694	694	695	696	697	699	700	701	702				
160	720	720	719	719	719	719	719	720	720	721	722	724	725	726	727				
165	740	740	739	739	739	739	740	740	740	741	742	743	744	745	746				
170	754	754	754	754	754	754	754	754	755	755	756	757	758	758	759				
175	763	763	763	763	763	763	763	763	764	764	765	765	766	766	767				
180	769	769	769	769	769	769	769	769	769	769	769	769	769	769	769				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2020-03-05

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: