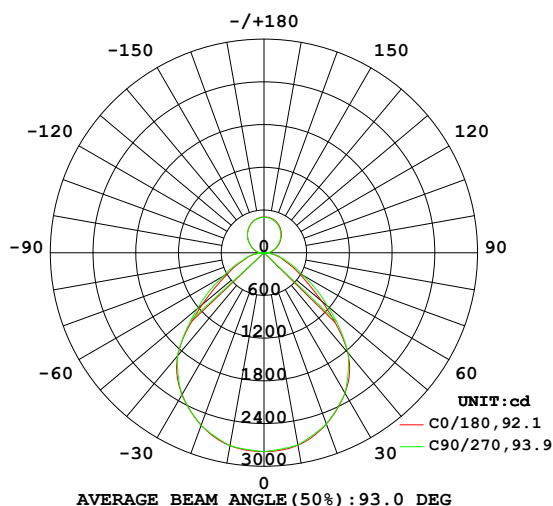


LUMINAIRE PHOTOMETRIC TEST REPORT

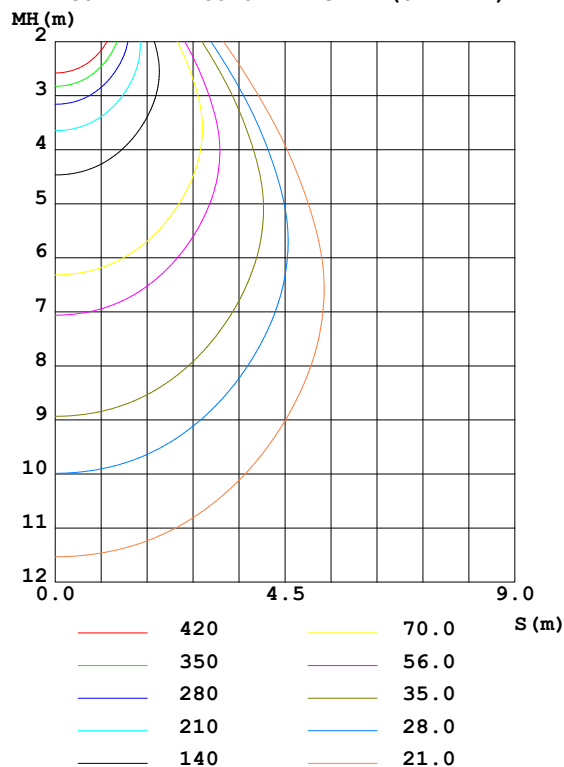
Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.53 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	2793	S/MH (C0/180)	1.23
NOMINAL POWER (W)	70	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	7623.2	η UP, DN (C0-180)	10.1, 39.5
NOMINAL FLUX (lm)	7623.17	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	10.1, 40.2
LAMPS INSIDE	1	η up (%)	20.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.0	η down (%)	79.7	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: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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

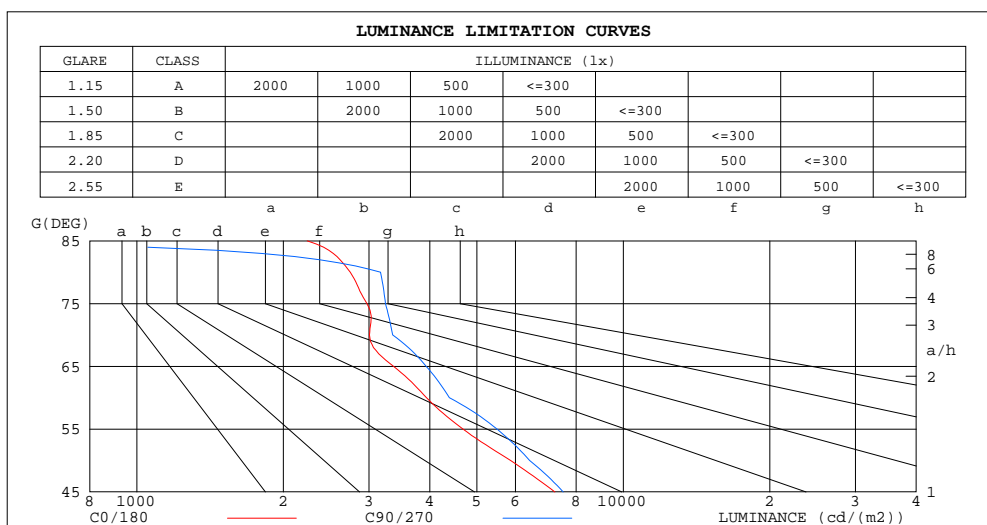
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2745	2734	2742	2728	2751	2738	2754	2742	0- 10	263.7	263.7	3.46,3.46
20	2560	2558	2561	2543	2578	2555	2585	2578	10- 20	751.4	1015	13.3,13.3
30	2275	2269	2278	2274	2300	2289	2311	2301	20- 30	1121	2136	28,28
40	1830	1823	1840	1855	1887	1874	1892	1877	30- 40	1303	3440	45.1,45.1
50	1065	1040	1166	1187	1132	1130	1218	1188	40- 50	1156	4595	60.3,60.3
60	556.6	559.0	620.0	609.1	589.7	586.4	649.8	621.9	50- 60	747.7	5343	70.1,70.1
70	290.7	295.2	324.4	312.5	303.9	298.0	321.1	313.5	60- 70	434.6	5778	75.8,75.8
80	134.7	139.9	155.5	153.3	152.1	137.9	165.7	153.2	70- 80	241.3	6019	79,79
90	63.19	43.16	60.76	59.06	59.26	57.05	59.54	62.61	80- 90	58.18	6077	79.7,79.7
100	112.3	91.24	106.6	105.6	105.0	103.6	104.7	109.8	90-100	87.00	6164	80.9,80.9
110	172.8	158.7	162.6	158.8	159.1	157.5	157.8	166.5	100-110	139.3	6304	82.7,82.7
120	240.1	233.1	229.3	223.8	223.3	220.9	223.7	233.7	110-120	191.5	6495	85.2,85.2
130	311.4	304.4	300.2	294.4	293.8	290.9	294.7	305.1	120-130	235.9	6731	88.3,88.3
140	377.6	370.1	366.2	361.2	361.0	357.3	361.4	371.4	130-140	256.9	6988	91.7,91.7
150	433.4	425.6	422.7	418.6	419.1	414.7	418.9	427.4	140-150	247.1	7235	94.9,94.9
160	474.7	466.9	465.4	462.9	464.4	459.0	462.8	469.7	150-160	205.2	7440	97.6,97.6
170	498.5	491.4	491.4	490.9	493.3	487.4	489.9	494.8	160-170	135.6	7576	99.4,99.4
180	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	170-180	47.32	7623	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: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:

LUMINANCE LIMITATION CURVES

Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2239	0
80	2745	3170
75	2970	3244
70	3008	3356
65	3369	3934
60	3939	4388
55	4681	5499
50	5861	6416
45	7229	7522

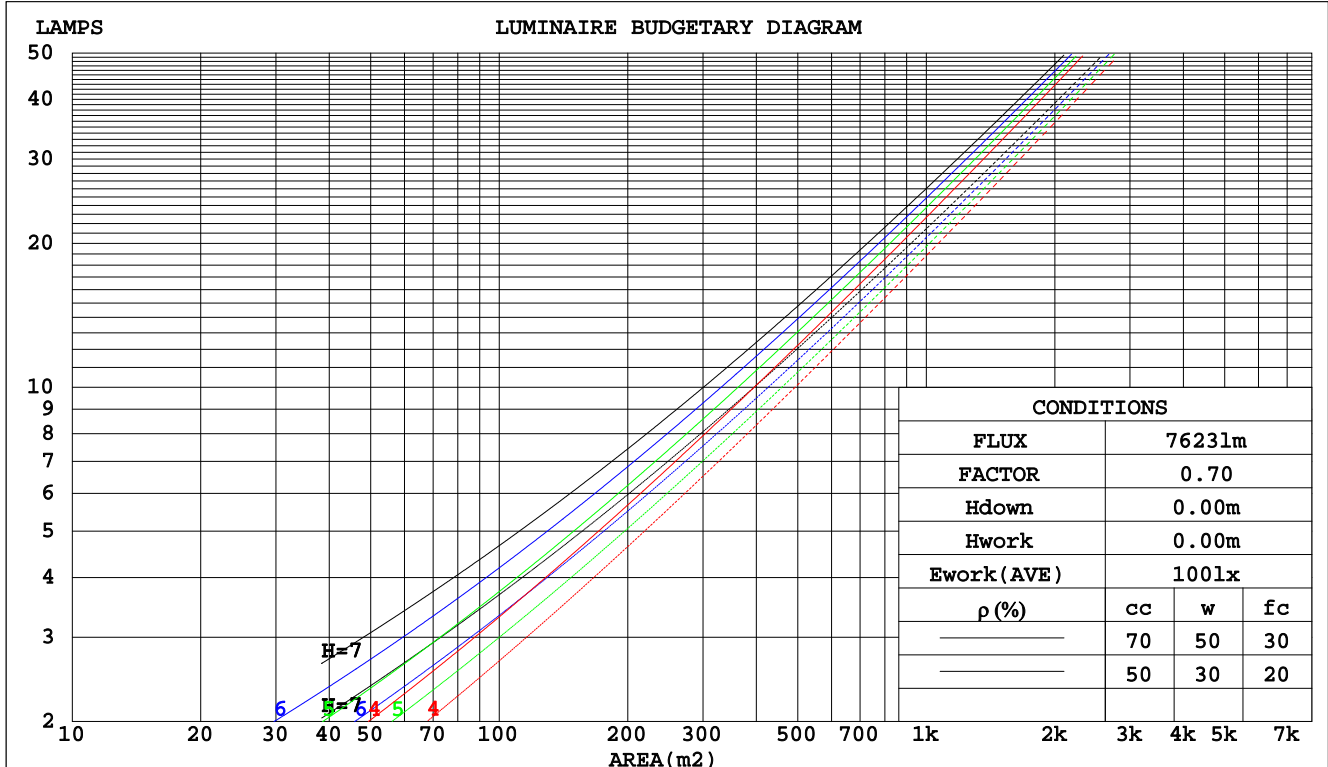
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-28

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	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	1.14	1.14	1.14	1.09	1.09	1.09	.00	.00	.00	.91	.91	.91	.83	.83	.83	.80
1.0	1.01	.98	.94	.97	.94	.91	.89	.87	.85	.82	.80	.78	.75	.74	.73	.69
2.0	.90	.84	.79	.86	.81	.77	.80	.75	.72	.73	.70	.67	.68	.65	.63	.60
3.0	.80	.73	.67	.77	.71	.65	.71	.66	.62	.66	.62	.58	.61	.58	.55	.52
4.0	.72	.64	.58	.69	.62	.57	.64	.58	.54	.60	.55	.51	.55	.51	.48	.45
5.0	.65	.57	.51	.62	.55	.49	.58	.52	.47	.54	.49	.45	.50	.46	.43	.40
6.0	.58	.50	.45	.57	.49	.44	.53	.46	.42	.49	.44	.40	.46	.41	.38	.36
7.0	.53	.45	.40	.52	.44	.39	.48	.42	.37	.45	.40	.36	.42	.38	.34	.32
8.0	.49	.41	.36	.47	.40	.35	.44	.38	.34	.42	.36	.32	.39	.34	.31	.29
9.0	.45	.37	.32	.43	.36	.32	.41	.35	.30	.38	.33	.29	.36	.31	.28	.26
10.0	.41	.34	.29	.40	.33	.29	.38	.32	.28	.36	.30	.27	.34	.29	.26	.24



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

WEC AND CCEC

Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: φ600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ600mm	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	.263	.150	.047	.250	.143	.045	.225	.129	.041	.203	.117	.038	.182	.106	.034		
2.0	.250	.137	.042	.238	.131	.040	.216	.120	.037	.196	.110	.034	.177	.100	.032		
3.0	.234	.124	.037	.223	.120	.036	.203	.110	.034	.185	.101	.031	.168	.093	.029		
4.0	.218	.114	.033	.209	.109	.032	.191	.101	.030	.174	.094	.028	.159	.086	.026		
5.0	.204	.104	.030	.195	.100	.029	.179	.093	.027	.164	.086	.026	.150	.080	.024		
6.0	.191	.096	.027	.183	.093	.027	.168	.086	.025	.154	.080	.024	.141	.074	.022		
7.0	.179	.089	.025	.172	.086	.024	.158	.080	.023	.145	.075	.022	.133	.069	.020		
8.0	.169	.082	.023	.162	.080	.023	.149	.075	.021	.137	.070	.020	.126	.065	.019		
9.0	.159	.077	.021	.153	.075	.021	.141	.070	.020	.130	.065	.019	.120	.061	.018		
10.0	.150	.072	.020	.145	.070	.019	.134	.066	.018	.123	.061	.017	.114	.057	.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	.345	.345	.345	.295	.295	.295	.201	.201	.201	.116	.116	.116	.037	.037	.037	
1.0	.333	.312	.294	.285	.268	.253	.195	.184	.175	.112	.107	.102	.036	.034	.033	
2.0	.323	.289	.260	.277	.249	.225	.190	.172	.157	.109	.100	.092	.035	.032	.030	
3.0	.315	.272	.237	.270	.234	.206	.186	.163	.144	.107	.095	.085	.034	.031	.028	
4.0	.308	.259	.221	.264	.224	.192	.182	.156	.135	.105	.091	.080	.034	.030	.026	
5.0	.301	.248	.210	.258	.215	.183	.178	.150	.129	.103	.088	.077	.033	.029	.025	
6.0	.294	.240	.202	.253	.208	.176	.174	.146	.124	.101	.086	.074	.033	.028	.024	
7.0	.288	.234	.196	.248	.203	.171	.171	.142	.121	.099	.084	.072	.032	.027	.024	
8.0	.282	.228	.191	.243	.198	.167	.168	.139	.118	.098	.082	.070	.032	.027	.023	
9.0	.277	.223	.187	.238	.194	.163	.165	.136	.116	.096	.080	.069	.031	.026	.023	
10.0	.272	.219	.184	.234	.190	.161	.162	.134	.114	.095	.079	.068	.031	.026	.023	

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

UGR(Unified Glare Rating) Table

Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm										
NAME: SUGAR 600-U-68W-830					TYPE:Ceiling light			WEIGHT:0.2		
SPEC.:3000K					DIM.: ϕ 600mm*H105mm			SERIAL No.:		
MFR.: NEKO LIGHTING AG					SUR.: ϕ 600mm			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	9.4	10.6	9.9	11.1	11.6	9.7	10.9	10.3	11.4	12.0
3H	10.1	11.1	10.6	11.7	12.3	10.5	11.5	11.1	12.1	12.7
4H	10.4	11.4	11.0	11.9	12.6	10.9	11.8	11.4	12.4	13.0
6H	10.7	11.6	11.3	12.1	12.8	11.1	12.0	11.7	12.6	13.3
8H	10.7	11.6	11.3	12.2	12.8	11.2	12.0	11.8	12.6	13.3
12H	10.7	11.5	11.3	12.1	12.8	11.1	12.0	11.7	12.6	13.3
4H 2H	9.6	10.6	10.2	11.1	11.8	9.9	10.8	10.5	11.4	12.0
3H	10.5	11.3	11.1	11.9	12.6	10.8	11.7	11.4	12.3	12.9
4H	10.9	11.7	11.6	12.3	13.0	11.3	12.0	11.9	12.7	13.4
6H	11.3	12.0	12.0	12.6	13.4	11.7	12.4	12.4	13.0	13.8
8H	11.4	12.0	12.1	12.7	13.5	11.8	12.4	12.5	13.1	13.8
12H	11.5	12.0	12.2	12.7	13.5	11.7	12.3	12.4	13.0	13.8
8H 4H	11.0	11.7	11.7	12.3	13.1	11.4	12.0	12.1	12.6	13.4
6H	11.6	12.1	12.3	12.8	13.6	11.9	12.4	12.6	13.1	13.9
8H	11.8	12.2	12.5	12.9	13.8	12.0	12.5	12.8	13.2	14.0
12H	11.9	12.2	12.6	13.0	13.9	12.0	12.4	12.7	13.1	14.0
12H 4H	11.0	11.6	11.7	12.3	13.1	11.3	11.9	12.1	12.6	13.4
6H	11.6	12.1	12.4	12.8	13.6	11.9	12.3	12.6	13.1	13.9
8H	11.8	12.2	12.6	13.0	13.8	12.1	12.4	12.8	13.2	14.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.3 / - 0.4				
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 1.2 / - 0.7					+ 1.0 / - 0.8				

CIE Pub.117, 7623 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 7.1$)

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

UTILIZATION FACTORS TABLE

Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:

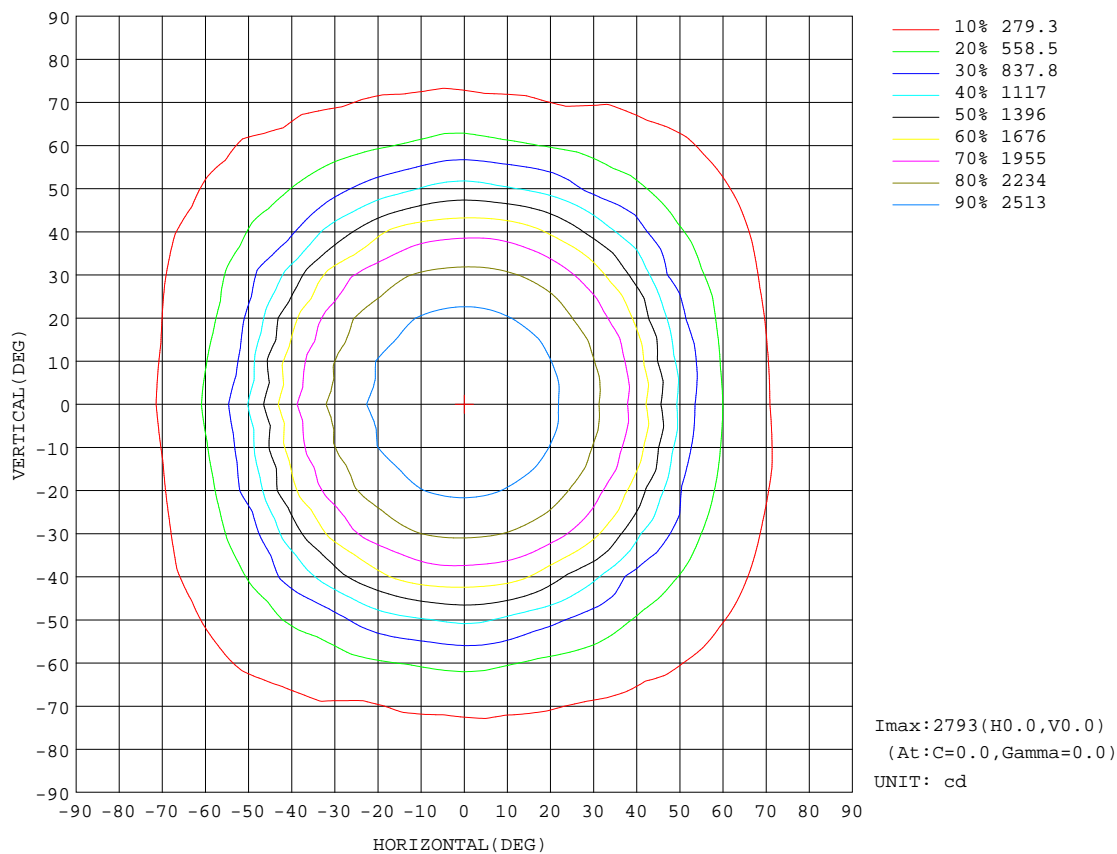
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	47	41	56	46	40	54	45	40	33
0.80	67	57	50	65	56	49	62	54	48	41
1.00	75	65	58	73	64	57	69	63	56	47
1.25	82	72	66	79	70	64	74	67	62	53
1.50	86	77	71	83	75	69	78	72	67	57
2.00	92	85	79	89	82	77	83	77	73	62
2.50	96	89	83	92	86	81	86	81	77	64
3.00	99	93	87	95	89	85	88	84	80	67
4.00	102	97	93	98	94	90	91	87	84	70
5.00	105	100	96	100	96	93	92	90	87	72
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: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:

ISOCANDELA DIAGRAM

Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:

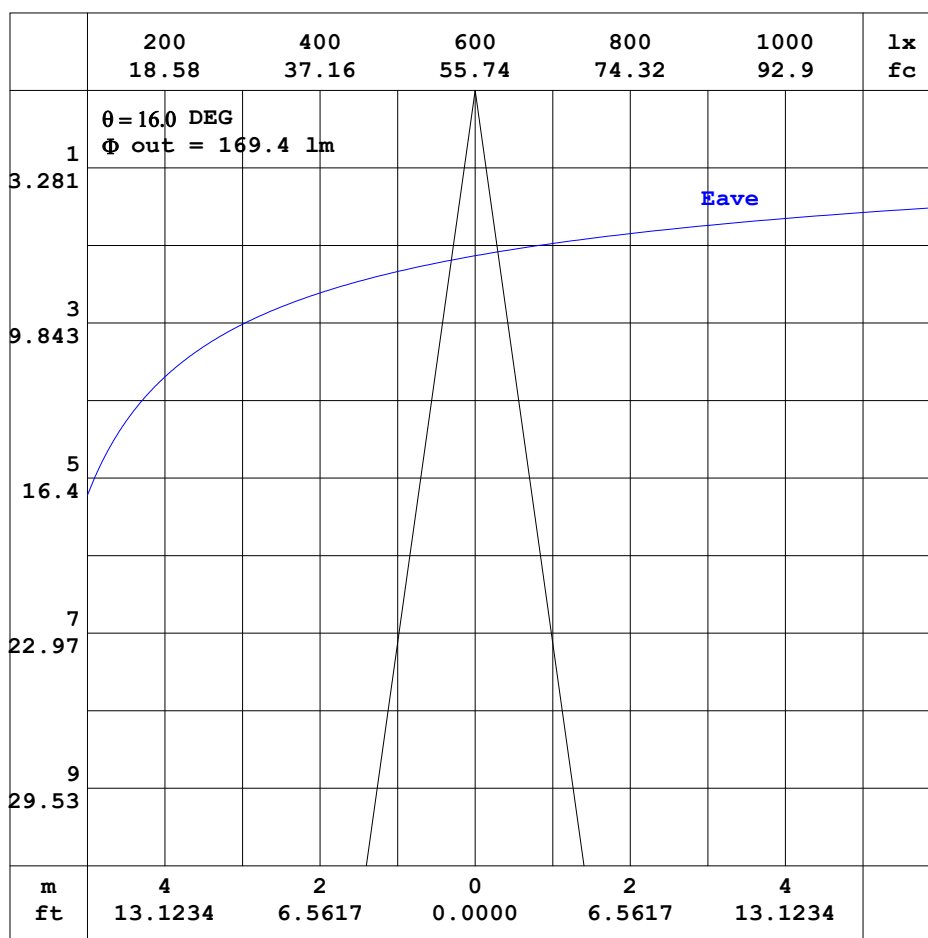


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-28

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:

AAI CURVES

Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:



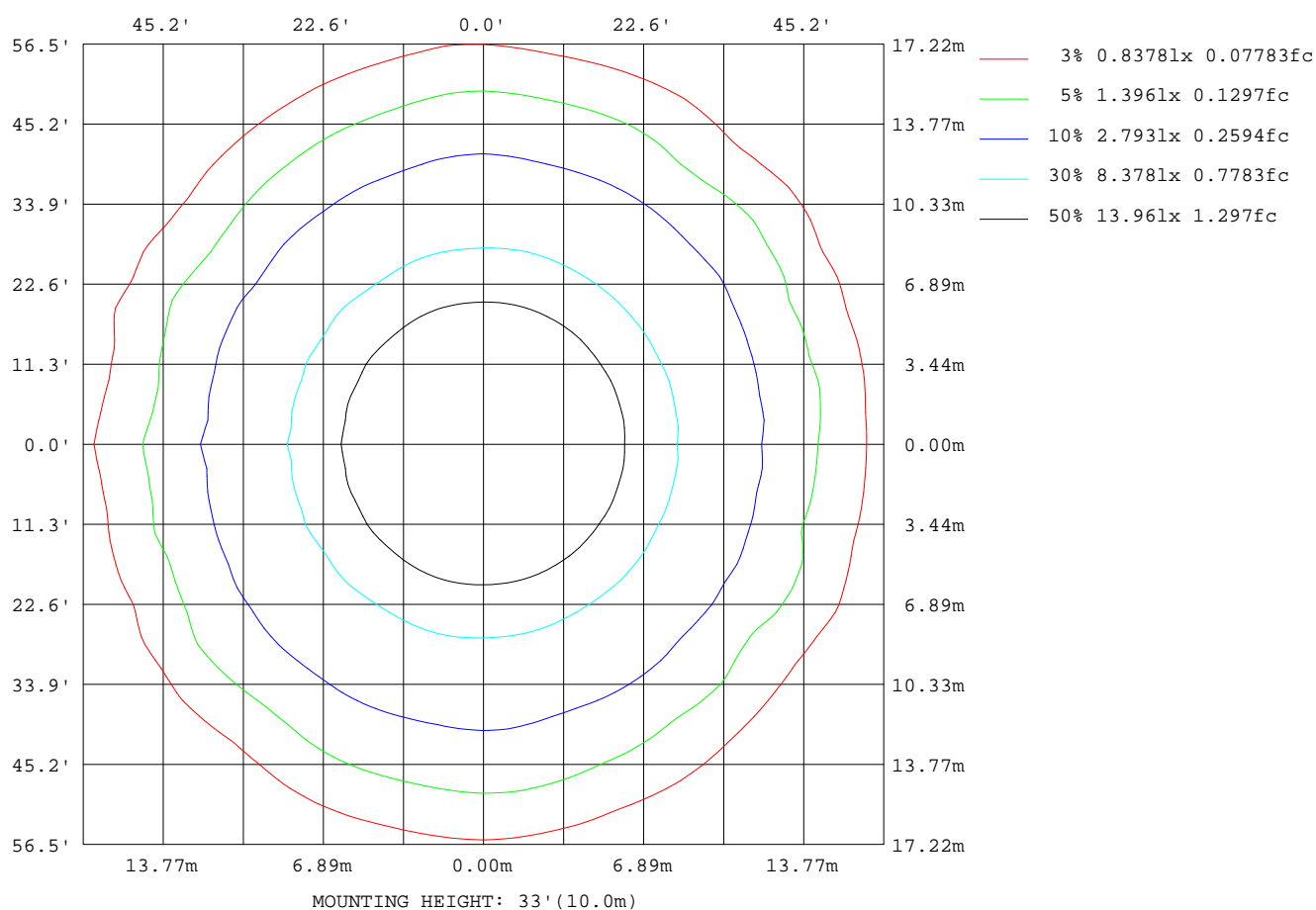
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

ISOLUX DIAGRAM

Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:



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

LED Avg.L Report

Test:U:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:

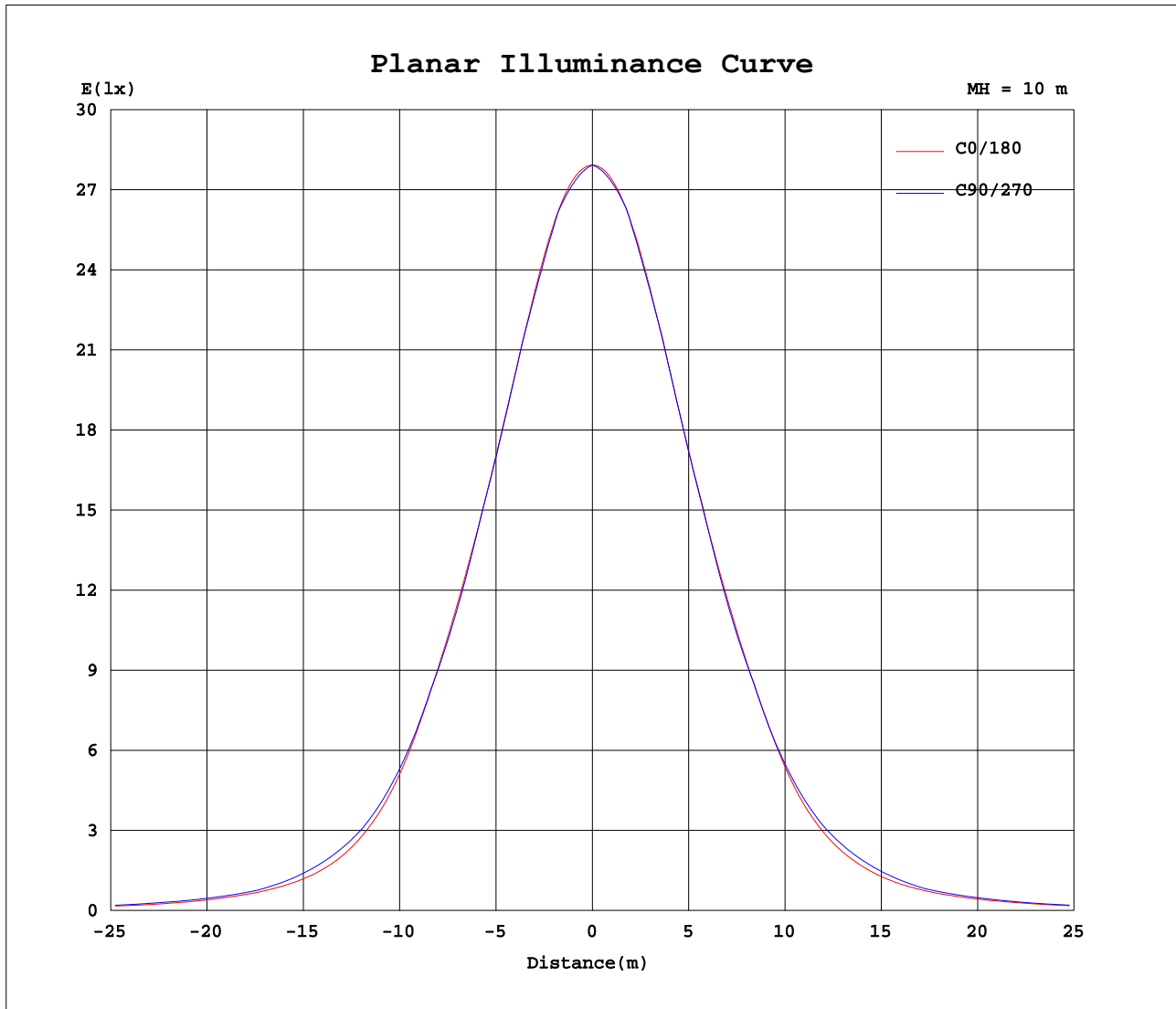
AvgL	cd/m2
L_0~180 (65) av	3521
L_0~180 (75) av	3078
L_0~180 (85) av	2620
L_90~270 (65) av	4016
L_90~270 (75) av	3305
L_90~270 (85) av	0
L_45 (65) av	3579
L_45 (75) av	3121
L_45 (85) av	1657

Standard: GB/T 29293-2012

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

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: Jason Long
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:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: φ600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ600mm	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	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793
5	2782	2781	2779	2777	2776	2775	2774	2773	2772	2771	2770	2770	2769	2769	2768	2768	2768	2767	2767
10	2745	2741	2739	2738	2737	2737	2737	2736	2735	2734	2735	2736	2737	2738	2739	2741	2741	2742	2742
15	2668	2666	2666	2667	2668	2665	2663	2664	2666	2664	2662	2660	2659	2658	2656	2655	2654	2652	2651
20	2560	2560	2564	2568	2562	2561	2560	2558	2557	2558	2556	2553	2552	2552	2554	2556	2558	2560	2561
25	2426	2431	2441	2435	2432	2431	2433	2436	2427	2422	2420	2420	2421	2422	2422	2422	2421	2420	2420
30	2275	2282	2288	2276	2274	2280	2279	2271	2269	2269	2272	2274	2271	2271	2272	2273	2274	2275	2278
35	2091	2103	2094	2077	2084	2079	2065	2071	2084	2084	2084	2089	2078	2073	2070	2067	2061	2059	2060
40	1830	1866	1844	1835	1834	1805	1817	1830	1825	1823	1800	1793	1794	1806	1823	1833	1834	1834	1840
45	1445	1523	1476	1513	1453	1467	1475	1466	1481	1475	1430	1404	1432	1467	1486	1495	1501	1503	1503
50	1065	1091	1053	1077	1077	1100	1060	1079	1056	1040	1082	1093	1104	1102	1091	1101	1131	1158	1166
55	759	749	739	710	810	810	788	706	728	787	786	768	786	802	810	838	868	891	891
60	557	555	562	564	567	580	561	560	550	559	575	589	591	586	581	595	601	613	620
65	402	385	384	406	397	367	410	407	416	410	412	422	422	426	436	452	460	474	470
70	291	305	313	318	309	303	308	312	309	295	309	318	314	317	324	325	323	331	324
75	217	208	213	230	225	230	224	230	222	214	223	218	218	222	230	235	234	244	237
80	135	138	139	141	142	152	142	150	142	140	142	135	138	138	137	148	146	153	156
85	55.2	45.4	46.8	49.8	59.6	60.4	64.2	58.2	47.7	38.5	31.3	23.0	17.7	12.6	7.95	4.97	2.20	0.58	0.00
90	63.2	55.6	49.7	45.5	43.7	43.2	43.4	43.1	43.0	43.2	43.3	44.0	45.2	47.9	0.00	0.00	56.9	59.1	60.8
95	84.5	79.1	74.8	71.5	69.8	68.9	68.3	67.0	65.9	65.0	64.2	64.0	64.5	66.8	69.8	73.2	76.6	79.7	82.2
100	112	106	102	98.2	96.3	95.2	94.5	93.4	92.3	91.2	89.8	88.9	89.0	92.1	95.9	100.0	103	105	107
105	143	139	135	132	130	128	126	125	123	122	121	121	122	125	129	132	133	134	133
110	173	170	167	165	164	163	162	161	160	159	158	157	157	159	161	163	163	163	163
115	205	204	203	201	198	194	191	189	188	188	190	193	195	196	195	195	195	195	194
120	240	239	239	238	237	237	236	235	234	233	233	233	233	232	231	230	230	230	229
125	276	275	274	274	273	273	272	271	270	269	269	269	269	268	267	266	265	265	265
130	311	310	309	309	308	308	307	306	305	304	304	304	304	303	302	301	301	300	300
135	346	344	343	342	342	342	341	340	339	338	338	338	338	337	336	335	334	334	334
140	378	376	375	374	373	373	373	372	371	370	370	370	370	369	368	367	367	366	366
145	407	405	404	403	402	402	402	401	400	399	399	399	399	398	397	396	396	396	396
150	433	431	429	428	428	428	428	427	426	426	425	425	425	425	424	423	423	423	423
155	456	454	452	450	450	450	450	449	449	448	448	448	448	447	447	446	446	446	446
160	475	472	470	469	468	468	468	468	467	467	467	467	467	467	466	466	465	465	465
165	489	486	484	483	482	482	482	482	482	481	482	482	482	481	481	481	481	481	481
170	499	496	493	492	491	492	492	492	492	491	492	492	492	492	492	491	491	491	491
175	504	500	498	496	496	496	497	497	497	497	497	497	497	497	497	497	497	497	497
180	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
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:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	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	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793
5	2767	2766	2766	2766	2766	2766	2766	2767	2767	2768	2769	2771	2772	2774	2776	2779	2781	2784	2782
10	2742	2741	2740	2738	2737	2735	2733	2730	2728	2726	2724	2723	2725	2728	2732	2737	2744	2751	2745
15	2650	2649	2649	2649	2650	2652	2655	2660	2666	2671	2663	2657	2651	2647	2650	2659	2669	2682	2670
20	2561	2560	2558	2556	2553	2549	2546	2542	2543	2548	2557	2568	2561	2549	2540	2547	2560	2578	2562
25	2419	2418	2418	2418	2420	2425	2434	2440	2430	2420	2410	2419	2433	2435	2418	2408	2425	2449	2427
30	2280	2281	2280	2276	2272	2268	2263	2265	2274	2290	2276	2257	2258	2281	2280	2258	2270	2300	2270
35	2064	2068	2070	2072	2078	2092	2112	2092	2071	2061	2080	2097	2070	2072	2111	2083	2081	2125	2079
40	1850	1857	1856	1845	1828	1814	1810	1827	1855	1840	1805	1826	1872	1826	1842	1848	1814	1887	1820
45	1500	1501	1510	1519	1525	1532	1532	1512	1491	1507	1533	1493	1510	1531	1443	1498	1410	1523	1429
50	1154	1142	1149	1162	1169	1166	1160	1170	1187	1166	1152	1167	1112	1122	1093	1089	1056	1132	1040
55	878	865	865	871	872	857	827	822	843	881	891	814	793	764	820	773	779	817	744
60	617	610	610	621	625	620	595	588	609	623	595	608	575	582	560	552	559	590	566
65	462	456	452	445	440	446	435	427	434	427	411	421	434	408	420	431	436	439	414
70	314	318	320	306	295	313	323	315	313	319	325	315	314	307	301	292	289	304	294
75	233	233	229	214	203	219	235	234	240	237	236	242	232	222	215	213	219	233	220
80	152	153	148	145	138	145	149	152	153	151	155	161	147	131	123	112	117	152	139
85	0.58	2.30	5.01	8.75	12.9	19.2	26.2	34.9	43.1	54.4	65.6	74.7	67.7	56.2	54.0	43.7	35.9	73.9	62.5
90	61.2	61.2	0.00	0.00	60.0	59.5	59.3	59.1	59.1	59.0	59.1	59.1	59.3	59.5	59.6	59.7	59.6	59.3	58.4
95	82.8	82.8	82.4	82.3	82.2	82.0	82.0	81.9	81.9	81.9	81.8	81.8	81.9	81.9	81.9	81.9	81.8	81.6	80.7
100	107	107	106	106	106	106	106	106	106	106	106	106	105	105	105	105	105	105	104
105	133	133	132	132	132	132	132	131	131	131	131	131	131	131	130	131	131	131	130
110	162	161	160	160	160	160	160	159	159	159	159	159	159	158	158	158	159	159	158
115	193	193	192	192	191	191	191	190	189	189	189	189	189	188	188	189	189	189	188
120	228	227	227	226	226	226	225	225	224	224	224	224	223	223	222	223	223	223	222
125	264	263	262	262	262	262	261	260	259	259	259	259	259	258	257	258	259	259	257
130	299	298	297	297	297	297	296	295	294	294	295	295	294	293	293	293	294	294	292
135	333	332	331	331	331	331	330	329	329	329	329	329	329	328	328	327	328	328	326
140	365	365	364	364	364	364	363	362	361	361	361	361	361	360	360	360	361	361	359
145	395	394	394	393	393	393	393	392	391	391	391	391	392	391	391	390	391	391	389
150	422	421	421	420	420	420	420	419	419	419	419	419	418	418	418	418	419	419	417
155	445	445	444	444	444	444	444	443	443	443	443	443	443	442	442	443	444	444	441
160	465	464	464	464	464	464	464	463	463	463	463	464	463	463	463	464	464	464	462
165	480	480	480	480	480	480	480	479	479	479	480	480	480	480	480	480	481	481	479
170	491	491	491	491	491	491	491	491	491	491	491	491	492	492	492	492	493	493	491
175	497	498	498	498	498	498	498	498	498	499	499	499	499	499	500	501	501	501	499
180	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
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:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: φ600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ600mm	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	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793
5	2780	2778	2777	2775	2774	2773	2773	2772	2772	2772	2772	2772	2772	2772	2773	2773	2773	2773	2773
10	2740	2735	2732	2730	2729	2732	2735	2738	2741	2744	2747	2749	2751	2753	2753	2754	2754	2753	2752
15	2661	2655	2652	2658	2666	2674	2683	2680	2675	2671	2669	2667	2667	2667	2667	2668	2669	2670	2671
20	2550	2545	2556	2570	2579	2568	2560	2555	2557	2563	2568	2574	2578	2582	2584	2585	2585	2583	2581
25	2412	2424	2444	2443	2430	2422	2432	2442	2453	2450	2445	2442	2442	2442	2443	2445	2447	2450	2451
30	2259	2283	2287	2267	2269	2291	2305	2289	2280	2279	2287	2295	2301	2305	2308	2309	2311	2312	2311
35	2078	2107	2070	2072	2106	2096	2080	2091	2112	2131	2113	2104	2101	2099	2096	2096	2100	2107	2113
40	1851	1839	1818	1866	1832	1825	1864	1874	1831	1813	1833	1862	1881	1888	1888	1888	1892	1899	1904
45	1539	1455	1520	1489	1479	1554	1513	1479	1479	1501	1534	1545	1541	1538	1542	1547	1554	1558	1561
50	1075	1068	1108	1099	1122	1070	1090	1130	1134	1127	1139	1154	1154	1168	1195	1212	1218	1205	1188
55	720	764	784	841	788	753	764	787	813	822	837	850	855	870	897	925	935	924	907
60	551	550	602	576	599	571	572	586	595	601	606	614	615	619	629	653	650	632	621
65	419	424	393	387	412	433	424	415	439	445	435	445	455	459	469	490	490	474	465
70	303	310	308	321	307	322	308	298	317	320	315	329	335	326	331	338	321	312	317
75	212	224	231	226	226	236	220	221	234	220	217	230	238	238	241	250	246	237	234
80	146	150	158	159	155	160	147	138	148	142	143	147	148	158	158	165	166	161	152
85	70.6	76.3	74.4	76.6	77.1	65.2	52.3	40.7	33.6	24.9	19.0	13.6	8.76	5.36	2.39	0.62	0.00	0.61	2.29
90	57.5	56.7	56.5	56.5	56.6	56.8	56.9	57.0	57.0	57.0	57.1	57.7	58.4	59.0	59.3	59.4	59.5	59.8	60.1
95	79.8	79.0	79.0	79.1	79.5	79.7	79.9	80.2	80.3	80.3	80.4	80.5	80.6	80.8	81.0	81.2	81.5	81.6	81.8
100	103	102	102	103	103	103	103	104	104	104	104	104	104	104	104	105	105	105	105
105	129	128	128	128	128	129	129	130	130	129	129	130	130	130	130	130	130	131	131
110	157	156	155	155	156	156	157	158	157	157	157	157	158	158	158	158	158	159	160
115	187	185	185	185	185	186	187	187	187	187	187	187	188	189	189	189	189	190	191
120	220	218	218	218	219	219	220	221	221	221	221	221	222	223	223	223	224	225	226
125	255	253	253	253	253	254	255	256	256	256	256	257	258	258	259	259	259	260	262
130	290	288	287	288	288	289	290	291	291	291	291	292	293	294	294	294	295	296	297
135	324	322	321	321	322	323	324	325	325	325	325	326	327	328	328	329	329	330	331
140	356	354	354	354	355	356	356	357	357	357	358	359	360	361	361	361	361	363	364
145	387	384	384	384	385	386	387	387	388	388	388	389	390	391	391	391	392	393	394
150	414	412	411	412	413	413	414	415	415	415	415	416	417	418	418	418	419	420	421
155	439	436	436	436	437	437	438	439	439	439	439	440	441	442	442	442	443	444	445
160	459	457	456	457	457	458	458	459	459	459	459	460	461	462	462	462	463	464	465
165	476	474	473	473	474	474	475	475	476	476	476	476	477	478	478	478	479	479	480
170	488	486	486	486	486	487	487	487	488	488	488	488	489	489	489	490	490	490	491
175	496	494	493	494	494	494	495	495	495	495	495	496	496	496	496	497	497	497	498
180	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
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:220.1V I:0.3134A P:68.97W PF:0.9856 Freq:49.99Hz Lamp Flux:7623.17x1 lm		
NAME: SUGAR 600-U-68W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	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	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793	2793				
5	2774	2774	2774	2774	2774	2775	2775	2775	2776	2776	2777	2778	2779	2780	2781				
10	2751	2749	2747	2746	2744	2743	2742	2742	2742	2743	2742	2741	2741	2741	2743				
15	2671	2672	2673	2674	2675	2676	2678	2679	2676	2674	2674	2676	2672	2669	2668				
20	2579	2576	2574	2574	2575	2577	2578	2576	2574	2574	2572	2571	2574	2569	2562				
25	2451	2451	2450	2450	2451	2451	2450	2452	2457	2449	2444	2442	2443	2446	2434				
30	2309	2306	2305	2307	2310	2307	2301	2294	2293	2298	2297	2290	2290	2297	2287				
35	2117	2119	2121	2127	2134	2125	2121	2117	2104	2098	2110	2115	2107	2115	2113				
40	1901	1893	1882	1878	1879	1876	1877	1872	1877	1866	1862	1884	1869	1859	1875				
45	1568	1576	1574	1567	1559	1559	1573	1559	1537	1557	1549	1511	1533	1453	1512				
50	1194	1206	1220	1227	1223	1204	1188	1208	1223	1169	1164	1127	1120	1089	1114				
55	903	905	902	875	837	852	888	897	874	870	780	807	783	816	798				
60	626	637	645	651	632	607	622	644	636	594	604	578	585	564	550				
65	465	460	449	453	439	436	451	450	412	434	430	426	419	422	426				
70	322	315	306	325	339	330	313	322	335	320	311	313	317	305	295				
75	233	225	211	225	243	237	238	237	244	240	228	221	228	224	221				
80	149	148	142	147	152	153	153	152	157	155	148	141	147	143	140				
85	5.03	8.81	13.2	19.2	25.8	34.2	40.9	52.4	60.8	67.9	66.2	63.9	62.2	60.8	65.9				
90	60.4	60.6	60.7	60.9	61.4	62.0	62.6	63.1	63.7	64.3	65.4	66.4	66.9	66.3	65.1				
95	82.0	82.3	82.7	83.2	83.7	84.4	85.1	85.8	86.5	87.2	88.3	89.1	89.4	88.6	86.9				
100	106	106	107	107	108	109	110	111	111	112	113	114	115	114	114				
105	132	132	133	134	135	136	137	138	139	139	141	142	143	143	143				
110	161	161	162	162	164	165	166	167	168	169	170	172	173	173	173				
115	192	193	193	194	195	197	198	199	200	201	202	203	205	205	205				
120	227	228	228	229	231	232	234	235	235	236	237	239	240	240	240				
125	263	264	264	265	266	268	270	270	271	272	273	274	276	276	276				
130	298	299	300	300	302	304	305	306	306	307	308	310	311	311	312				
135	333	333	334	335	336	338	339	340	341	341	342	344	345	345	346				
140	365	366	366	367	369	370	371	372	373	373	375	376	377	378	378				
145	395	396	396	397	398	400	401	402	402	403	404	405	406	407	407				
150	422	423	423	424	425	426	427	428	429	429	430	431	432	433	433				
155	446	446	447	447	448	449	450	451	452	452	453	454	455	456	456				
160	465	466	466	467	468	469	470	470	471	471	472	473	474	474	475				
165	481	481	482	482	483	484	484	485	485	486	486	487	488	488	489				
170	492	492	493	493	494	494	495	495	495	496	496	497	498	498	498				
175	498	498	499	499	499	500	500	500	501	501	502	502	502	503	503				
180	504	504	504	504	504	504	504	504	504	504	504	504	504	504	504				

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