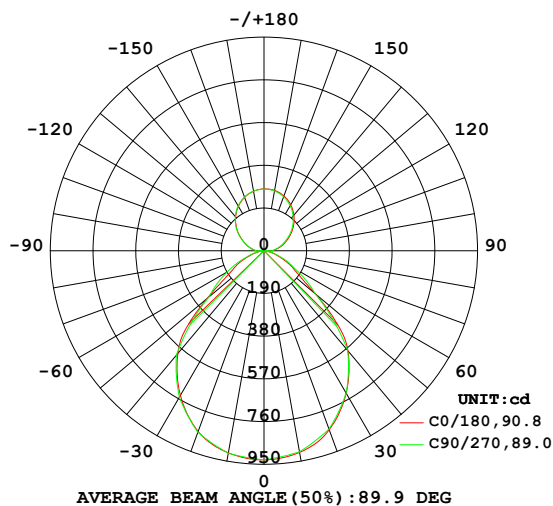


LUMINAIRE PHOTOMETRIC TEST REPORT

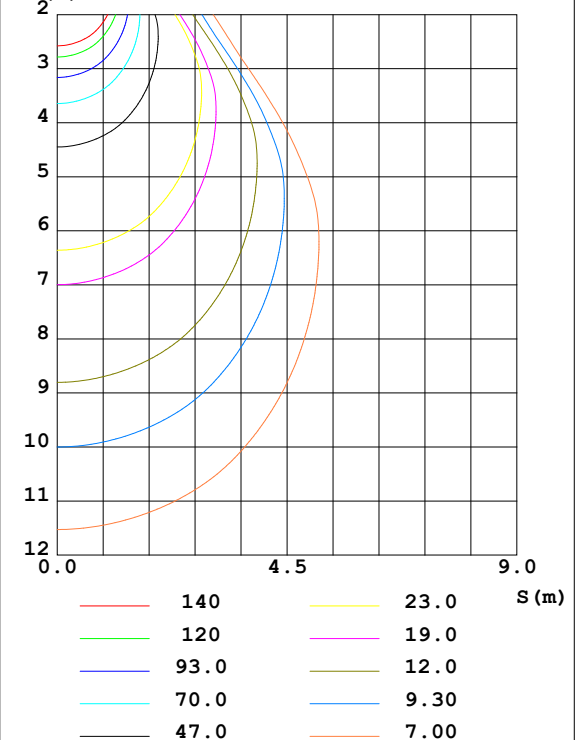
Test:U:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 99.77 lm/W			
MODEL	OSRAM-3000K	I _{max} (cd)	930.1	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)	2694.4	η UP,DN (C0-180)	15.8,33.6
NOMINAL FLUX (lm)	2694.35	CIE CLASS	SEMI-D.	η UP,DN (C180-360)	15.8,34.8
LAMPS INSIDE	1	η up (%)	31.5	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.0	η down (%)	68.5	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 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:

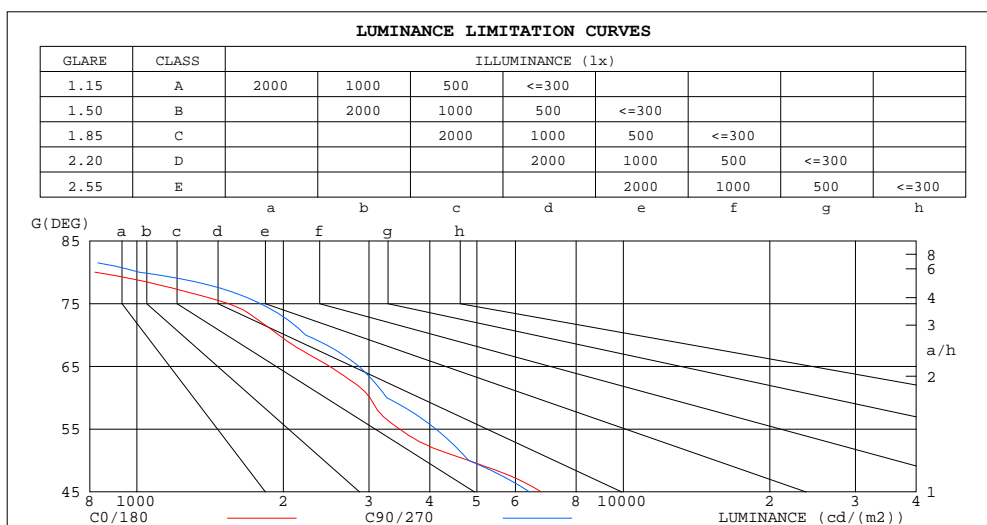
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	910.7	907.0	908.2	904.2	912.6	909.5	914.5	910.7	0- 10	87.58	87.58	3.25,3.25
20	847.7	843.8	844.5	836.8	855.6	847.7	859.9	853.6	10- 20	249.2	336.8	12.5,12.5
30	731.1	728.4	731.1	728.2	743.4	744.1	753.0	743.2	20- 30	366.5	703.3	26.1,26.1
40	580.7	570.9	578.9	584.9	595.8	597.9	606.1	599.3	30- 40	415.9	1119	41.5,41.5
50	296.8	290.9	297.2	339.0	331.3	319.7	319.7	344.2	40- 50	353.7	1473	54.7,54.7
60	144.9	144.0	156.9	158.3	152.9	174.8	187.9	164.2	50- 60	207.3	1680	62.4,62.4
70	64.37	67.92	73.07	70.26	72.24	70.57	82.49	76.26	60- 70	111.5	1792	66.5,66.5
80	13.69	16.22	16.90	16.88	19.10	21.92	22.91	19.56	70- 80	47.58	1839	68.3,68.3
90	36.14	24.97	33.37	32.23	32.40	31.26	32.68	34.85	80- 90	5.895	1845	68.5,68.5
100	62.97	50.44	58.52	57.37	57.14	56.67	57.14	60.77	90-100	47.92	1893	70.3,70.3
110	95.90	86.13	89.02	86.65	86.15	85.76	86.54	91.44	100-110	76.38	1969	73.1,73.1
120	132.6	129.4	125.5	122.2	120.8	120.4	122.8	128.1	110-120	105.1	2075	77,77
130	171.4	168.5	165.1	160.9	159.8	159.4	161.8	167.8	120-130	129.6	2204	81.8,81.8
140	207.3	204.6	201.4	197.6	196.6	196.1	198.5	204.3	130-140	141.2	2345	87,87
150	237.5	234.9	232.4	229.2	228.5	227.9	230.2	234.9	140-150	135.8	2481	92.1,92.1
160	259.8	257.6	255.9	253.6	253.3	252.4	254.3	257.7	150-160	112.7	2594	96.3,96.3
170	272.6	270.9	270.2	269.1	269.3	268.2	269.3	271.4	160-170	74.48	2668	99,99
180	275.3	275.3	275.3	275.3	275.3	275.3	275.3	275.3	170-180	25.99	2694	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
 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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	44	0
80	820	1012
75	1542	1793
70	1957	2222
65	2489	2861
60	3014	3264
55	3467	4119
50	4802	4809
45	6787	6415

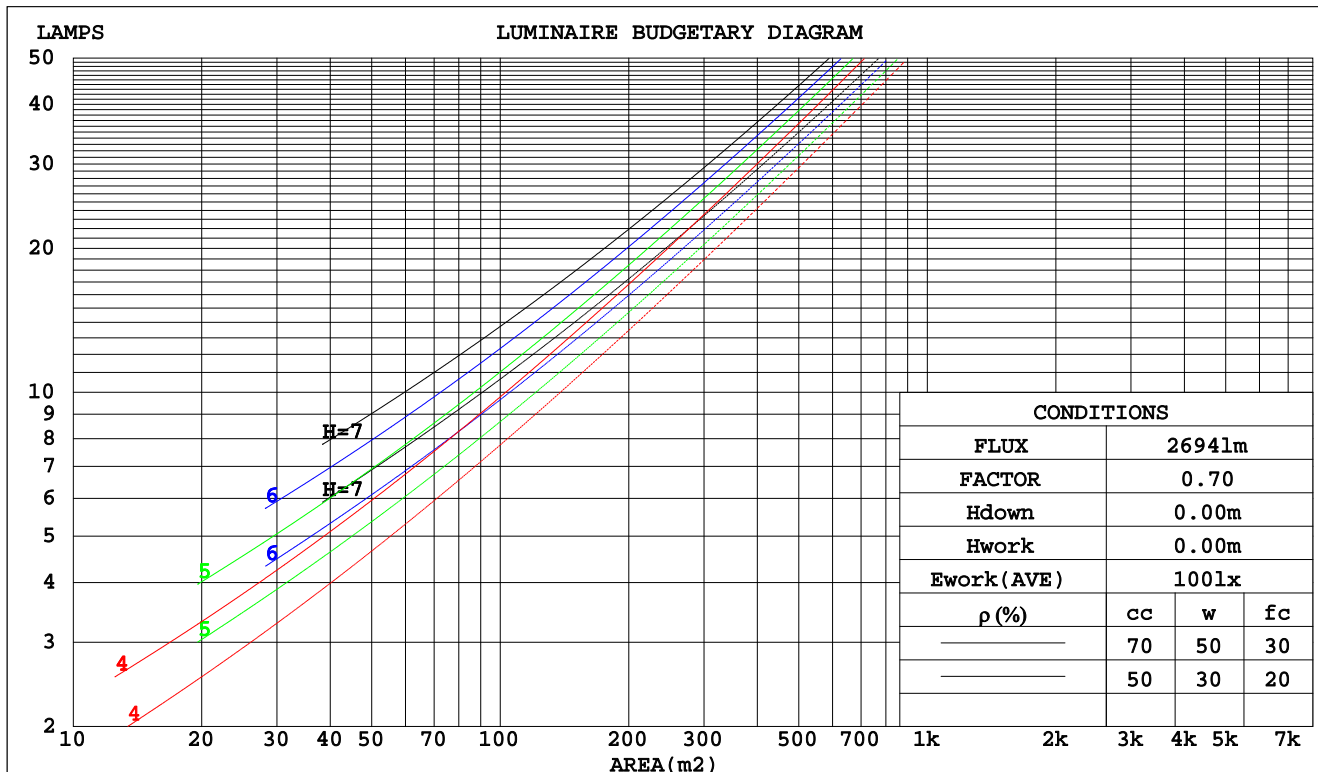
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-28

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 γ 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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 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	.68
1.0	.99	.96	.93	.94	.91	.88	.84	.82	.80	.75	.74	.72	.67	.66	.65	.61
2.0	.88	.83	.78	.84	.79	.75	.76	.72	.68	.68	.65	.62	.60	.58	.56	.53
3.0	.79	.72	.67	.75	.69	.64	.68	.63	.59	.61	.57	.54	.55	.52	.50	.46
4.0	.71	.63	.58	.67	.61	.56	.61	.56	.52	.55	.51	.48	.50	.47	.44	.41
5.0	.64	.56	.50	.61	.54	.49	.55	.50	.45	.50	.46	.42	.45	.42	.39	.36
6.0	.58	.50	.44	.55	.48	.43	.50	.45	.40	.46	.41	.38	.42	.38	.35	.32
7.0	.53	.45	.40	.50	.43	.38	.46	.40	.36	.42	.37	.34	.38	.34	.31	.29
8.0	.48	.41	.35	.46	.39	.34	.42	.37	.32	.39	.34	.30	.35	.31	.28	.26
9.0	.44	.37	.32	.42	.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 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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{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	.147	.085	.028		
2.0	.238	.130	.040	.223	.123	.038	.195	.108	.034	.169	.095	.030	.146	.082	.026		
3.0	.224	.119	.036	.210	.113	.034	.185	.100	.030	.162	.089	.027	.140	.078	.024		
4.0	.210	.109	.032	.197	.103	.031	.174	.092	.028	.153	.082	.025	.133	.072	.022		
5.0	.196	.100	.029	.185	.095	.028	.164	.086	.025	.145	.076	.023	.126	.067	.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	.129	.066	.019	.114	.059	.017		
8.0	.163	.080	.022	.155	.076	.022	.138	.069	.020	.122	.062	.018	.108	.055	.016		
9.0	.154	.075	.021	.146	.071	.020	.131	.065	.018	.116	.058	.017	.103	.052	.015		
10.0	.146	.070	.019	.138	.067	.019	.124	.061	.017	.110	.055	.016	.098	.049	.014		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.431	.431	.431	.368	.368	.368	.251	.251	.251	.144	.144	.144	.046	.046	.046	
1.0	.418	.399	.381	.358	.342	.328	.245	.235	.227	.141	.136	.132	.045	.044	.043	
2.0	.409	.376	.348	.350	.324	.301	.240	.224	.210	.138	.130	.123	.044	.042	.040	
3.0	.401	.359	.326	.343	.310	.283	.236	.215	.198	.136	.126	.117	.044	.041	.038	
4.0	.393	.346	.310	.337	.299	.270	.232	.208	.190	.134	.122	.112	.043	.040	.037	
5.0	.386	.336	.299	.332	.291	.260	.229	.203	.184	.132	.119	.109	.043	.039	.036	
6.0	.380	.328	.291	.327	.284	.253	.225	.199	.179	.131	.117	.107	.042	.038	.035	
7.0	.374	.322	.285	.322	.279	.248	.222	.196	.176	.129	.115	.105	.042	.038	.035	
8.0	.369	.316	.280	.317	.274	.244	.220	.193	.173	.128	.114	.103	.041	.037	.034	
9.0	.363	.312	.277	.313	.271	.241	.217	.190	.171	.126	.112	.102	.041	.037	.034	
10.0	.358	.308	.274	.309	.267	.239	.214	.188	.170	.125	.111	.101	.041	.037	.034	

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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm										
NAME: SUGAR 350-U-26W-830					TYPE:Ceiling light			WEIGHT:0.2		
SPEC.:3000K					DIM.: ϕ 350mm*H78mm			SERIAL No.:		
MFR.: NEKO LIGHTING AG					SUR.: ϕ 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	11.5	12.5	12.2	13.2	13.9	11.6	12.6	12.3	13.3	14.0
3H	11.9	12.8	12.6	13.5	14.3	12.0	13.0	12.7	13.6	14.4
4H	12.0	12.8	12.7	13.5	14.3	12.2	13.0	12.9	13.7	14.5
6H	11.9	12.7	12.7	13.4	14.3	12.1	12.9	12.9	13.6	14.5
8H	11.9	12.6	12.6	13.3	14.2	12.1	12.8	12.8	13.6	14.4
12H	11.8	12.5	12.5	13.2	14.1	12.0	12.7	12.8	13.5	14.3
4H 2H	11.6	12.4	12.3	13.1	13.9	11.6	12.5	12.3	13.2	14.0
3H	12.1	12.8	12.8	13.5	14.4	12.2	12.9	12.9	13.6	14.5
4H	12.2	12.8	13.0	13.6	14.5	12.3	13.0	13.1	13.7	14.6
6H	12.2	12.8	13.0	13.5	14.5	12.3	12.9	13.1	13.7	14.6
8H	12.1	12.6	12.9	13.4	14.4	12.3	12.8	13.1	13.6	14.6
12H	12.1	12.5	12.9	13.3	14.3	12.2	12.7	13.0	13.5	14.5
8H 4H	12.1	12.6	12.9	13.4	14.4	12.2	12.8	13.1	13.6	14.5
6H	12.2	12.6	13.0	13.4	14.4	12.3	12.7	13.1	13.5	14.5
8H	12.1	12.5	13.0	13.3	14.4	12.2	12.6	13.1	13.4	14.5
12H	12.0	12.3	12.9	13.2	14.3	12.2	12.5	13.0	13.3	14.4
12H 4H	12.1	12.5	12.9	13.3	14.3	12.2	12.6	13.0	13.5	14.4
6H	12.1	12.5	13.0	13.3	14.3	12.2	12.6	13.1	13.4	14.5
8H	12.0	12.4	12.9	13.2	14.3	12.2	12.5	13.0	13.3	14.4
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, 2694 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 3.4$)

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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	Shielding Angle:

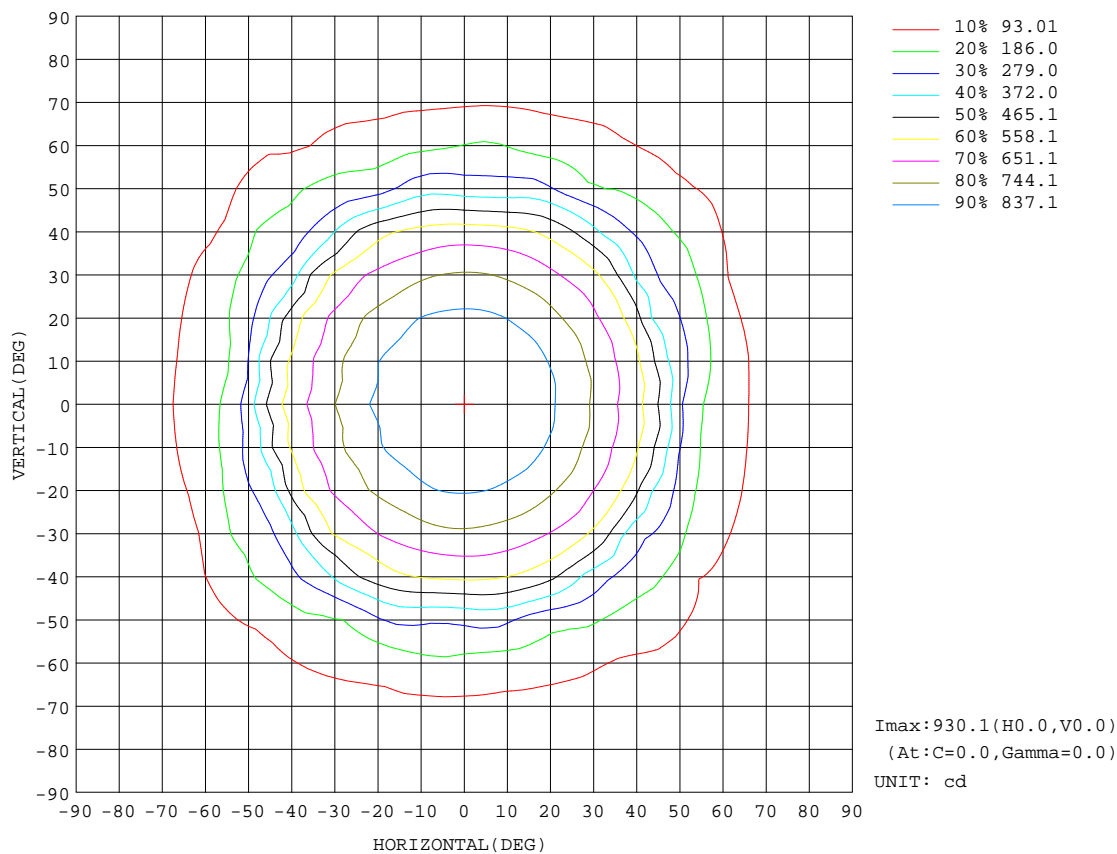
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	45	39	53	44	38	50	42	37	31
0.80	65	54	48	62	53	47	58	50	45	37
1.00	72	62	56	70	61	55	65	58	52	43
1.25	79	69	63	76	67	61	70	63	58	48
1.50	83	75	68	80	72	66	73	67	62	51
2.00	90	82	76	86	79	73	78	73	68	55
2.50	93	86	80	89	82	78	80	76	72	57
3.00	96	90	85	91	86	81	83	79	75	59
4.00	100	94	90	95	90	86	85	82	79	61
5.00	102	97	94	97	93	89	87	84	81	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 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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	Shielding Angle:

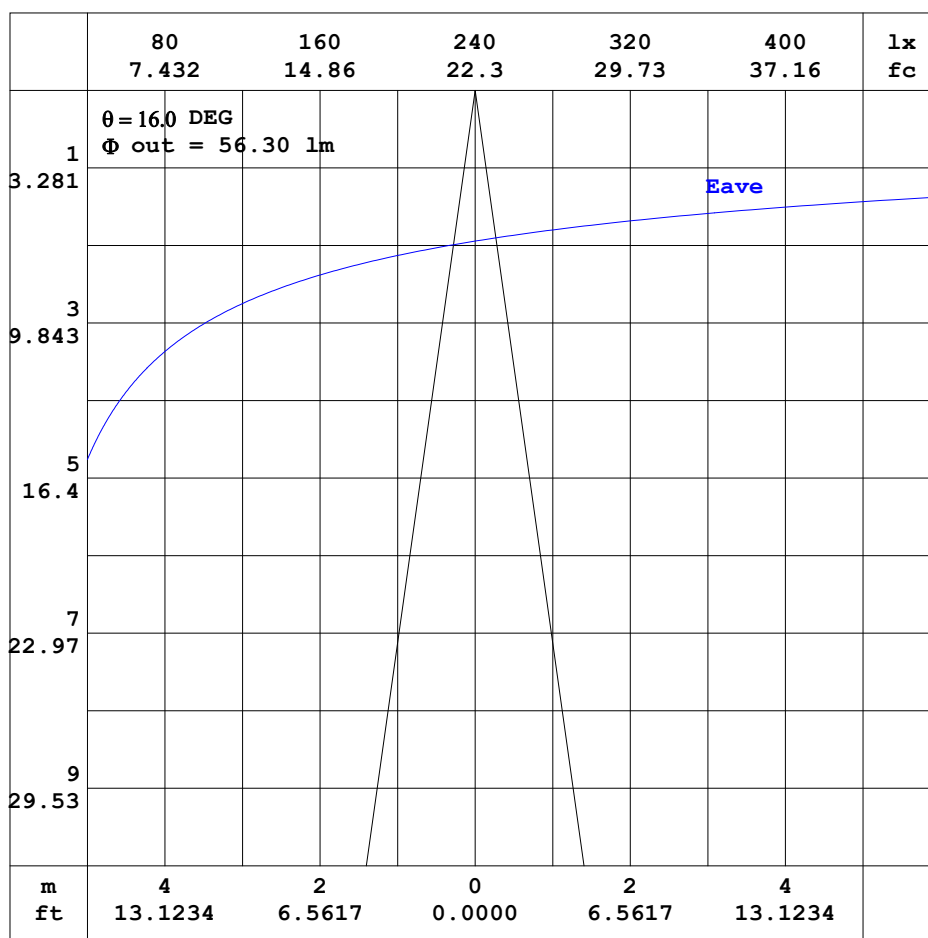


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason Long
Test Date:2019-11-28

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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	Shielding Angle:



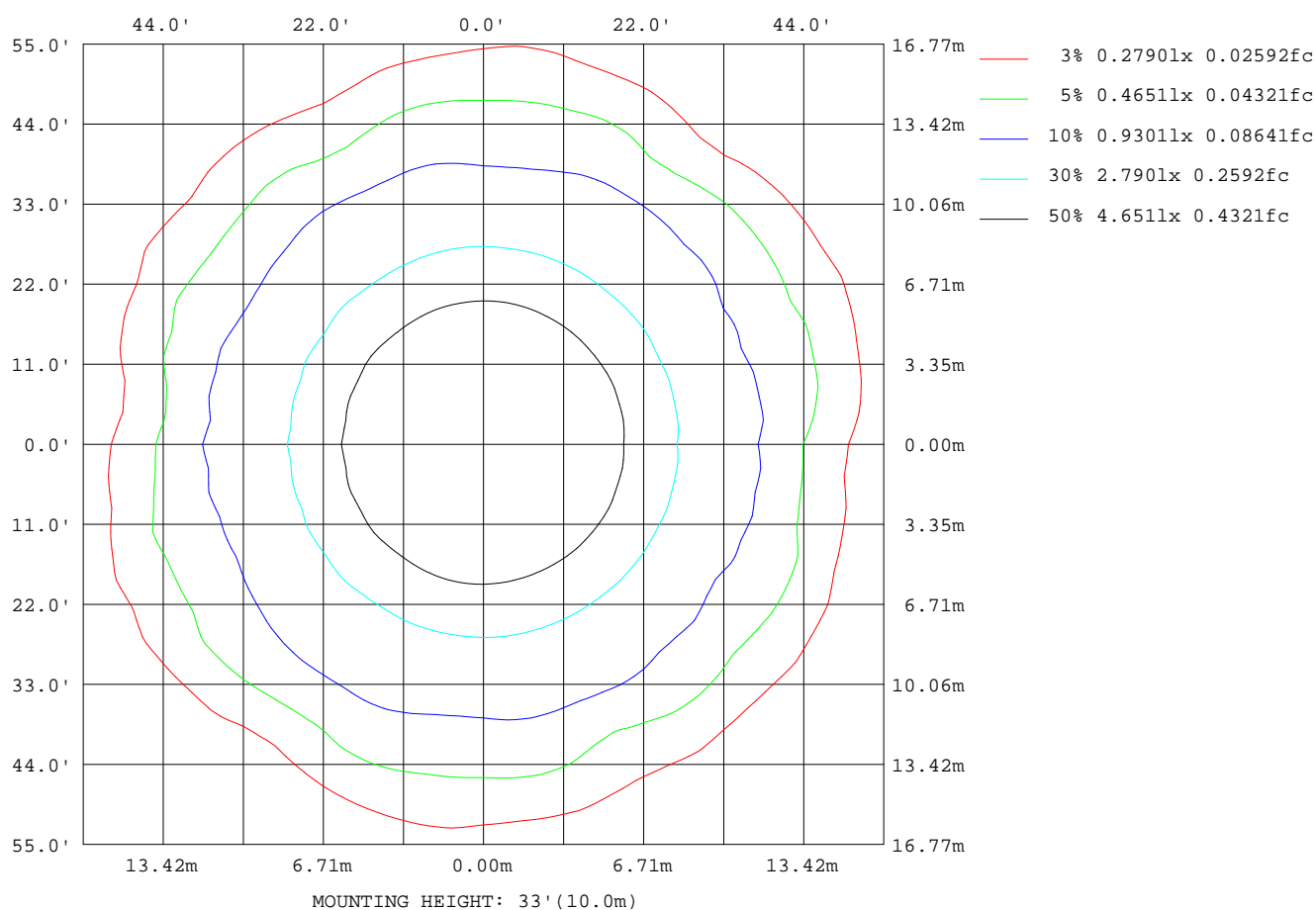
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason 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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	Shielding Angle:

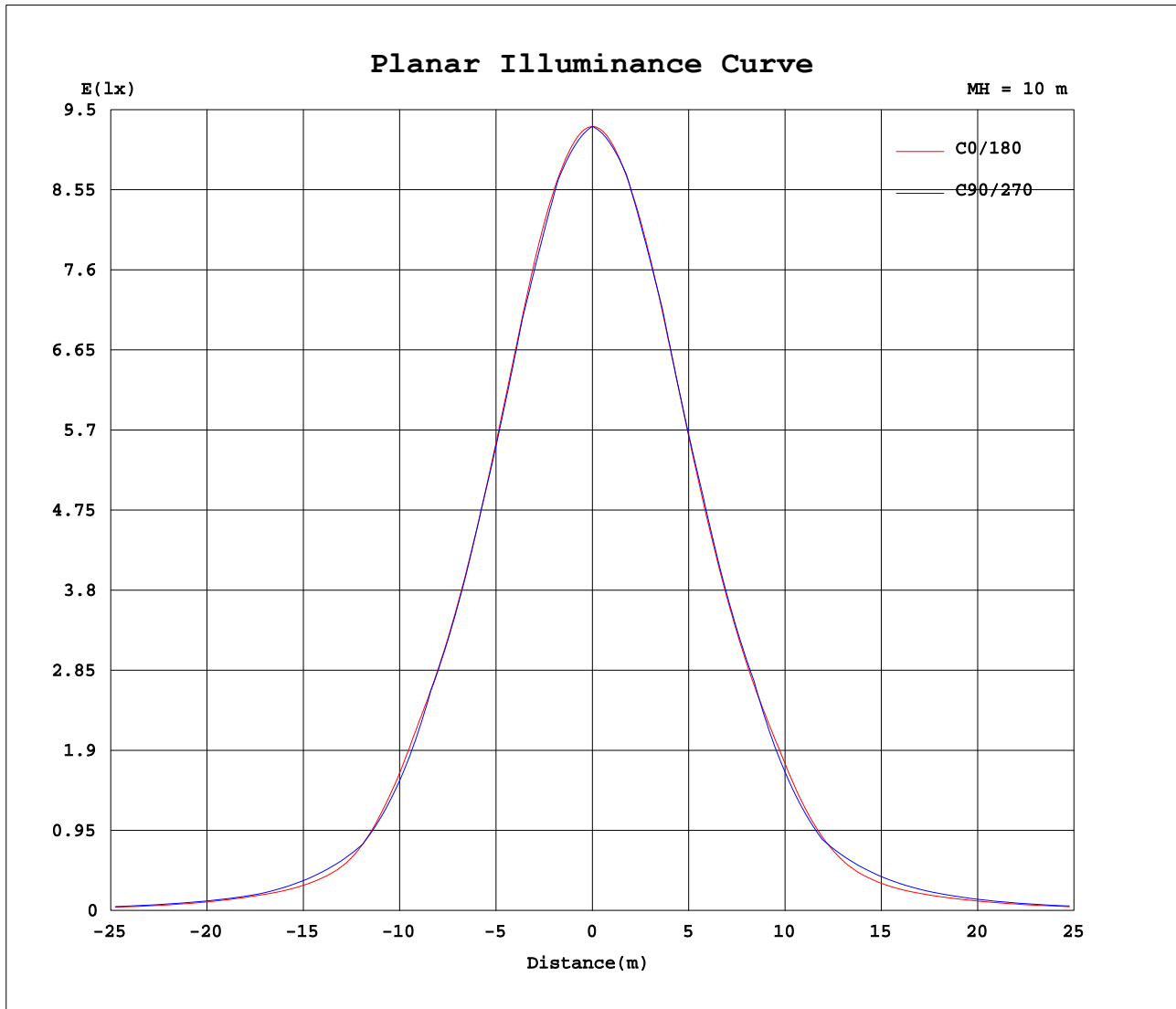
AvgL	cd/m2
L_0~180 (65) av	2645
L_0~180 (75) av	1681
L_0~180 (85) av	100
L_90~270 (65) av	3072
L_90~270 (75) av	1944
L_90~270 (85) av	0
L_45 (65) av	2669
L_45 (75) av	1704
L_45 (85) av	284

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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	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	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930
5	925	924	923	923	922	922	921	921	921	921	920	920	920	920	920	919	919	919	919
10	911	910	909	908	908	908	908	907	907	907	907	907	907	908	908	908	908	908	908
15	887	886	886	886	886	885	884	884	885	884	882	881	880	879	878	878	877	877	876
20	848	847	849	850	847	846	846	845	844	844	843	841	840	841	841	842	843	844	845
25	794	795	798	795	793	793	794	796	792	790	789	789	788	788	788	788	788	788	788
30	731	734	736	731	731	734	734	731	729	728	728	727	725	725	725	726	727	729	731
35	659	665	664	659	664	663	659	660	663	661	657	655	653	653	654	655	655	656	655
40	581	591	584	582	582	575	573	574	571	571	567	568	570	572	574	576	578	580	579
45	462	485	462	469	443	440	424	416	444	440	431	441	455	455	452	454	453	446	436
50	297	314	302	319	311	311	285	295	302	291	303	316	313	298	294	309	319	314	297
55	191	188	195	201	225	232	231	219	211	218	218	211	195	192	202	223	231	230	227
60	145	142	144	146	138	148	151	165	151	144	150	155	149	147	150	152	147	147	157
65	101	100	100	99.0	94.4	88.5	104	109	110	102	95.3	96.4	102	104	107	108	108	111	116
70	64.4	67.3	68.9	70.2	69.1	71.2	70.6	69.5	70.9	67.9	63.7	67.4	68.9	66.9	65.5	68.2	69.8	74.2	73.1
75	38.4	41.2	41.8	39.6	38.9	40.2	38.7	41.9	43.1	38.3	35.7	38.8	39.8	38.5	38.0	41.2	43.2	45.2	44.6
80	13.7	16.9	15.6	15.6	16.7	16.6	17.6	19.5	18.6	16.2	15.1	15.7	15.0	14.4	13.9	14.8	16.1	15.8	16.9
85	0.37	0.79	0.87	0.88	2.20	2.59	1.00	0.79	0.95	1.37	1.54	1.56	1.28	1.01	0.70	0.45	0.23	0.06	0.00
90	36.1	30.7	26.7	24.2	23.7	24.2	25.1	25.1	25.1	25.0	24.7	24.7	25.1	26.5	0.00	0.00	31.4	32.5	33.4
95	48.0	44.5	41.8	39.9	39.1	38.9	38.8	38.2	37.5	36.9	36.2	35.9	35.9	36.9	38.3	39.9	41.8	43.6	45.0
100	63.0	59.7	57.1	55.0	53.7	52.9	52.3	51.6	51.0	50.4	49.6	49.1	49.0	50.2	51.8	53.7	55.6	57.2	58.5
105	79.4	77.0	75.0	73.3	72.1	71.2	70.3	69.0	67.8	66.7	66.2	66.1	66.5	68.3	70.3	72.1	72.8	73.2	73.2
110	95.9	94.0	92.4	91.1	90.2	89.4	88.7	87.7	86.8	86.1	85.7	85.5	85.8	87.1	88.5	89.7	89.8	89.5	89.0
115	113	113	112	112	111	110	109	108	107	107	107	108	109	108	108	108	107	107	106
120	133	132	132	131	131	131	131	130	130	129	129	129	128	128	127	127	126	126	126
125	152	152	151	151	151	151	151	150	150	149	149	149	149	148	147	147	146	146	146
130	171	171	171	170	170	170	170	170	169	169	168	168	168	167	167	166	166	165	165
135	190	190	189	189	189	189	189	188	188	187	187	187	187	186	185	185	184	184	184
140	207	207	207	206	206	206	206	206	205	205	204	204	204	203	203	202	202	202	201
145	223	223	222	222	222	222	222	222	221	221	220	220	220	220	219	218	218	218	218
150	238	237	236	236	236	236	236	236	235	235	235	235	235	234	234	233	233	233	232
155	250	249	249	248	248	248	248	248	248	247	247	247	247	247	246	246	246	245	245
160	260	259	259	258	258	258	258	258	258	258	257	257	257	257	256	256	256	256	256
165	267	267	266	266	266	266	266	266	266	266	265	265	265	265	265	265	264	264	264
170	273	272	271	271	271	271	271	271	271	271	271	271	271	271	271	270	270	270	270
175	275	275	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274	274
180	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275

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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	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	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930
5	919	919	919	919	919	919	919	919	919	920	920	920	921	922	923	924	925	926	925
10	908	908	908	907	907	906	905	905	904	904	903	903	904	905	906	908	910	913	911
15	876	876	876	875	876	877	878	880	883	885	883	881	879	878	880	883	887	891	888
20	845	845	844	842	841	839	838	836	837	840	844	849	847	843	839	842	848	856	849
25	788	787	787	787	787	789	792	794	791	787	784	789	796	797	791	787	795	804	796
30	732	732	730	728	726	724	722	723	728	736	733	727	728	737	736	727	732	743	732
35	654	654	654	655	656	658	661	657	655	657	665	670	660	660	672	660	659	673	659
40	578	578	579	579	578	573	568	572	585	586	574	575	590	573	581	587	576	596	578
45	435	441	455	468	476	482	481	469	459	466	466	438	448	455	432	479	446	494	455
50	292	301	323	341	342	331	331	339	339	334	317	311	298	305	310	327	312	331	293
55	231	232	238	239	230	208	197	213	231	243	251	233	234	237	251	228	215	209	187
60	170	169	160	154	153	149	145	151	158	160	163	179	173	178	156	151	155	153	142
65	122	119	113	105	106	110	111	110	108	101	98.0	110	119	106	97.0	98.1	108	114	112
70	72.5	74.3	78.4	73.6	72.0	72.6	74.0	72.9	70.3	72.4	75.5	75.8	78.4	74.0	74.6	73.8	72.8	72.2	64.5
75	45.3	46.0	47.4	44.1	42.4	42.1	43.5	43.2	40.3	42.4	45.7	44.9	43.2	43.8	43.0	40.9	40.7	45.3	46.2
80	18.1	17.9	17.6	17.7	17.3	16.6	17.6	17.6	16.9	17.8	19.0	21.1	20.3	21.0	18.3	17.8	16.8	19.1	15.8
85	0.07	0.26	0.55	0.93	1.30	1.52	1.88	2.14	2.14	1.95	1.58	1.43	3.19	3.09	1.71	1.64	0.79	1.31	0.64
90	33.6	33.5	0.00	0.00	32.7	32.4	32.3	32.2	32.2	32.2	32.2	32.3	32.4	32.5	32.6	32.6	32.5	32.4	32.1
95	45.3	45.2	45.0	44.9	44.9	44.8	44.7	44.6	44.5	44.5	44.6	44.6	44.6	44.5	44.4	44.5	44.5	44.4	44.2
100	58.6	58.3	57.8	57.8	57.8	57.8	57.7	57.5	57.4	57.4	57.5	57.5	57.4	57.1	57.0	57.0	57.1	57.1	57.0
105	73.0	72.8	72.4	72.2	72.0	71.9	71.8	71.7	71.7	71.6	71.5	71.4	71.3	71.2	71.1	71.1	71.1	71.0	70.8
110	88.7	88.4	88.0	87.7	87.5	87.2	87.0	86.8	86.7	86.6	86.5	86.4	86.3	86.2	86.1	86.2	86.2	86.2	85.9
115	106	106	105	105	104	104	104	104	103	103	103	103	103	103	102	103	103	103	102
120	125	125	124	124	123	123	123	122	122	122	122	121	121	121	121	121	121	121	120
125	145	144	144	144	143	143	143	142	142	142	142	141	141	141	140	140	141	141	140
130	164	164	163	163	163	163	162	161	161	161	161	161	160	160	159	160	160	160	159
135	183	182	182	182	181	181	181	180	180	180	180	180	179	179	178	178	179	179	178
140	201	200	200	199	199	199	199	198	198	197	197	197	197	197	196	196	196	197	196
145	217	217	216	216	216	216	215	215	214	214	214	214	214	213	213	213	213	213	213
150	232	231	231	231	231	230	230	230	229	229	229	229	229	228	228	228	228	228	228
155	245	244	244	244	244	243	243	243	242	242	242	242	242	242	242	242	242	242	241
160	256	255	255	255	255	254	254	254	254	254	254	254	253	253	253	253	253	253	253
165	264	264	263	263	263	263	263	263	263	263	263	263	262	262	262	262	262	263	262
170	270	270	270	270	270	269	269	269	269	269	269	269	269	269	269	269	269	269	269
175	273	273	273	273	273	273	273	273	273	273	273	273	273	273	273	273	274	274	273
180	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275

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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 350mm	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	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930
5	924	924	923	923	922	922	922	922	922	922	922	922	922	922	922	922	922	922	922
10	909	908	907	907	907	907	908	910	910	911	912	913	914	914	914	914	915	914	914
15	885	883	882	885	887	890	893	891	889	888	887	886	886	886	886	887	887	887	888
20	845	843	848	853	857	853	850	848	848	851	853	855	857	858	859	860	860	859	858
25	789	794	802	803	798	795	800	804	809	808	805	804	803	803	804	805	806	807	808
30	728	737	740	734	736	745	750	744	740	738	741	743	746	748	750	752	753	753	752
35	661	673	663	667	680	676	670	672	676	680	676	674	674	675	676	678	680	680	681
40	588	586	582	601	584	580	594	598	587	586	592	596	599	603	606	608	606	604	605
45	491	456	482	459	437	476	464	451	469	494	498	484	478	478	479	474	465	463	468
50	317	317	327	313	301	297	314	320	337	343	334	325	332	347	351	337	320	318	324
55	192	222	222	242	234	228	226	230	240	231	214	212	228	248	258	257	254	256	258
60	147	150	161	157	178	173	169	175	171	170	165	158	162	172	171	177	188	197	194
65	115	110	97.6	96.5	108	123	118	108	105	113	118	114	114	122	123	127	133	141	141
70	65.5	70.2	73.1	76.0	72.6	78.9	80.0	70.6	68.8	74.6	78.5	75.3	75.4	80.0	79.5	80.5	82.5	85.4	85.7
75	44.6	41.5	46.1	46.8	49.3	47.7	47.4	47.9	48.4	47.6	47.1	45.4	45.7	48.6	50.2	50.8	52.1	54.2	54.1
80	16.1	17.9	20.9	21.2	24.5	23.2	21.2	21.9	22.4	21.6	20.8	20.8	20.0	20.1	22.1	21.8	22.9	23.3	23.0
85	1.31	1.43	2.80	2.73	1.13	2.07	3.18	3.56	3.35	2.77	2.15	1.66	1.08	0.64	0.33	0.08	0.00	0.09	0.34
90	31.8	31.5	31.3	31.3	31.3	31.2	31.2	31.3	31.2	31.2	31.3	31.6	31.9	32.2	32.4	32.5	32.7	32.9	33.1
95	44.0	43.7	43.6	43.5	43.5	43.6	43.7	43.8	43.8	43.7	43.7	43.9	44.0	44.2	44.3	44.4	44.5	44.7	44.9
100	56.7	56.5	56.4	56.3	56.3	56.4	56.6	56.7	56.6	56.6	56.5	56.7	56.9	57.1	57.1	57.1	57.1	57.4	57.8
105	70.6	70.4	70.4	70.5	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.8	70.9	71.1	71.1	71.2	71.4	71.6	72.0
110	85.6	85.4	85.4	85.5	85.6	85.7	85.7	85.8	85.8	85.8	85.8	85.8	85.9	86.0	86.1	86.3	86.5	86.9	87.3
115	102	102	102	102	102	102	102	102	102	102	102	102	102	102	103	103	104	104	105
120	120	120	120	120	120	120	120	120	121	121	121	121	121	122	122	122	123	123	124
125	140	139	139	139	139	140	140	140	140	140	140	141	141	142	142	142	142	143	144
130	159	159	158	158	158	159	159	159	159	159	159	160	161	161	161	162	162	163	163
135	178	177	177	177	177	178	178	178	178	178	178	179	179	180	180	180	181	181	182
140	196	195	195	195	195	195	196	196	196	196	196	197	197	198	198	198	199	199	200
145	212	212	212	212	212	212	212	213	213	213	213	213	214	214	215	215	215	216	216
150	227	227	227	227	227	227	228	228	228	228	228	228	229	229	230	230	230	231	231
155	241	240	240	240	240	241	241	241	241	241	241	242	242	243	243	243	243	244	244
160	252	252	252	252	252	252	252	252	252	253	253	253	253	254	254	254	254	255	255
165	261	261	261	261	261	261	261	261	262	262	262	262	262	263	263	263	263	263	264
170	268	268	268	268	268	268	268	268	268	268	268	268	269	269	269	269	269	270	270
175	273	272	272	272	272	272	272	272	272	272	273	273	273	273	273	273	273	273	273
180	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275

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:220.2V I:0.1275A P:27.01W PF:0.9600 Freq:50.00Hz Lamp Flux:2694.35x1 lm		
NAME: SUGAR 350-U-26W-830	TYPE:Ceiling light	WEIGHT:0.2
SPEC.:3000K	DIM.: ϕ 350mm*H78mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 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	930	930	930	930	930	930	930	930	930	930	930	930	930	930	930				
5	922	923	923	923	923	923	923	923	923	923	923	923	923	924	924				
10	914	913	913	912	912	911	911	911	911	911	910	910	910	910	910				
15	888	888	888	888	888	889	890	890	889	888	888	889	888	887	887				
20	857	856	854	853	853	853	854	853	853	853	852	852	853	851	849				
25	808	807	806	805	804	803	803	803	806	803	802	801	801	803	797				
30	750	749	747	747	747	745	743	742	743	746	746	742	740	743	737				
35	681	681	679	678	677	676	678	680	677	675	677	676	671	672	669				
40	605	605	603	602	600	596	599	602	603	595	587	594	591	590	594				
45	478	492	501	503	497	491	494	490	470	464	464	449	472	465	487				
50	341	362	369	364	362	356	344	355	344	315	320	313	328	330	334				
55	258	262	251	224	210	232	249	252	252	249	241	255	247	244	220				
60	180	174	175	170	163	163	164	168	176	178	185	172	167	156	153				
65	131	121	120	123	122	115	117	111	101	116	117	113	94.1	95.9	102				
70	85.0	82.4	81.0	81.0	82.9	79.6	76.3	77.5	81.0	80.8	77.5	76.8	77.4	76.7	73.8				
75	53.0	51.3	48.9	46.4	47.3	47.1	43.1	45.3	50.2	43.8	45.2	43.0	45.3	41.8	39.6				
80	21.9	21.3	20.6	19.3	20.1	20.6	19.6	19.3	19.5	20.7	21.4	20.6	19.8	19.5	17.6				
85	0.69	1.12	1.56	1.83	2.21	2.33	2.44	1.92	0.97	0.42	2.78	2.83	0.55	0.74	0.83				
90	33.3	33.5	33.6	33.8	34.1	34.5	34.9	35.2	35.6	36.0	36.6	37.1	37.4	37.2	36.8				
95	45.1	45.3	45.5	45.8	46.2	46.7	47.2	47.6	47.9	48.3	49.0	49.6	49.9	49.7	49.0				
100	58.2	58.4	58.7	59.0	59.6	60.2	60.8	61.2	61.6	62.0	62.6	63.2	63.7	63.7	63.5				
105	72.4	72.8	73.2	73.7	74.3	74.9	75.5	76.1	76.6	77.2	77.8	78.3	78.8	79.1	79.3				
110	87.8	88.3	88.9	89.5	90.1	90.8	91.4	92.1	92.7	93.4	94.0	94.6	95.1	95.5	95.7				
115	105	106	106	107	108	108	109	110	110	111	111	112	112	113	113				
120	124	125	126	126	127	127	128	129	129	130	131	132	132	132	133				
125	145	145	145	146	147	148	148	149	149	150	150	151	152	152	152				
130	164	164	165	165	166	167	168	168	169	169	170	171	171	171	172				
135	183	183	184	184	185	186	187	187	187	188	189	189	190	190	190				
140	201	201	201	202	203	203	204	205	205	205	206	207	207	207	207				
145	217	218	218	218	219	220	220	221	221	221	222	223	223	223	223				
150	232	232	233	233	234	234	235	235	236	236	236	237	237	238	238				
155	245	245	245	246	246	247	247	248	248	248	249	249	249	250	250				
160	256	256	256	256	257	257	258	258	258	258	259	259	259	260	260				
165	264	264	265	265	265	265	266	266	266	266	267	267	267	267	267				
170	270	270	270	271	271	271	271	272	272	272	272	272	272	272	273				
175	274	274	274	274	274	274	274	274	275	275	275	275	275	275	275				
180	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275				

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: