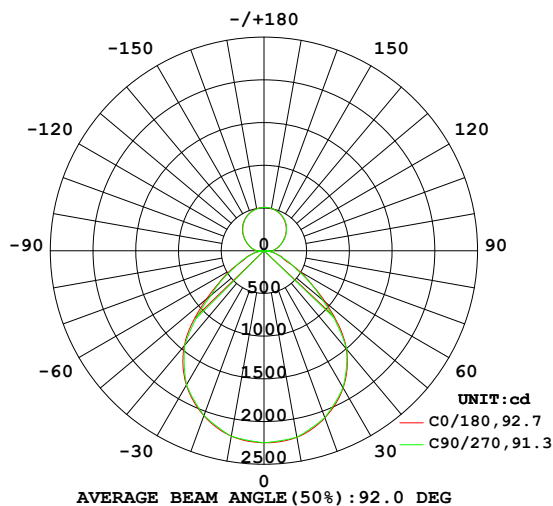


LUMINAIRE PHOTOMETRIC TEST REPORT

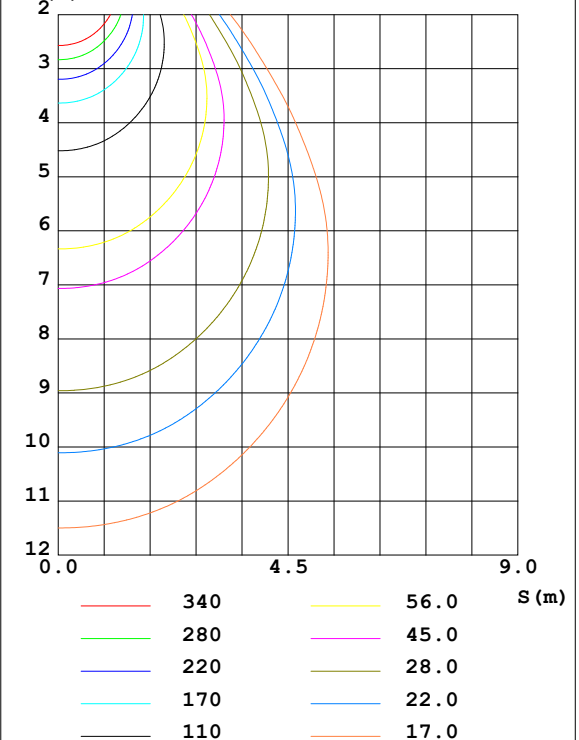
Test:U:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.23 lm/W			
MODEL	OSRAM-4000K	I _{max} (cd)	2247	S/MH (C0/180)	1.21
NOMINAL POWER (W)	60	LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	6459.9	η UP, DN (C0-180)	13.8, 37.1
NOMINAL FLUX (lm)	6459.87	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	13.2, 35.9
LAMPS INSIDE	1	η up (%)	27.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220.0	η down (%)	73.0	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: 2019-11-14

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:

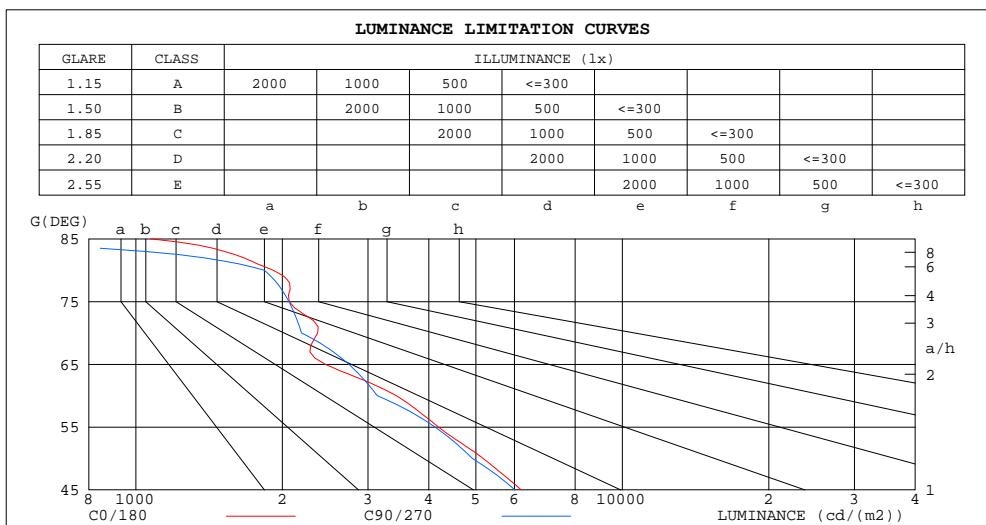
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2217	2210	2217	2200	2204	2190	2206	2202	0- 10	212.1	212.1	3.28,3.28
20	2082	2076	2079	2054	2055	2038	2054	2058	10- 20	604.2	816.4	12.6,12.6
30	1853	1853	1851	1821	1816	1798	1814	1821	20- 30	899.2	1716	26.6,26.6
40	1499	1520	1511	1467	1450	1433	1443	1463	30- 40	1038	2753	42.6,42.6
50	939.9	963.9	893.0	849.5	879.0	854.4	810.2	811.8	40- 50	905.6	3659	56.6,56.6
60	484.7	484.7	442.9	426.9	444.9	436.0	404.0	417.3	50- 60	562.8	4222	65.4,65.4
70	228.6	229.2	211.7	204.2	214.0	201.0	197.1	198.3	60- 70	308.5	4530	70.1,70.1
80	93.91	98.24	90.12	82.79	78.27	73.38	67.79	75.07	70- 80	153.8	4684	72.5,72.5
90	94.97	95.73	93.75	86.41	83.10	78.13	84.25	88.55	80- 90	29.13	4713	73,73
100	146.8	148.9	148.0	141.9	135.8	131.7	133.1	141.9	90-100	124.8	4838	74.9,74.9
110	205.1	209.6	206.3	203.0	192.9	188.9	188.6	201.1	100-110	179.7	5017	77.7,77.7
120	270.7	280.7	274.0	269.6	256.6	251.5	251.7	266.1	110-120	229.7	5247	81.2,81.2
130	338.8	345.5	343.2	335.4	325.2	318.6	320.0	330.7	120-130	268.5	5516	85.4,85.4
140	399.1	404.7	404.0	395.9	387.4	381.2	382.1	390.2	130-140	280.9	5797	89.7,89.7
150	447.7	452.4	452.2	445.7	438.6	433.5	433.9	440.4	140-150	262.7	6059	93.8,93.8
160	482.3	485.9	485.8	481.3	476.3	472.6	472.8	477.2	150-160	213.5	6273	97.1,97.1
170	502.5	504.4	504.4	502.1	499.5	497.6	497.7	499.9	160-170	139.0	6412	99.3,99.3
180	508.1	508.1	508.1	508.1	508.1	508.1	508.1	508.1	170-180	48.17	6460	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:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	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	1072	0
80	1914	1837
75	2067	2063
70	2365	2190
65	2451	2741
60	3430	3135
55	4186	4121
50	5174	4916
45	6193	6016

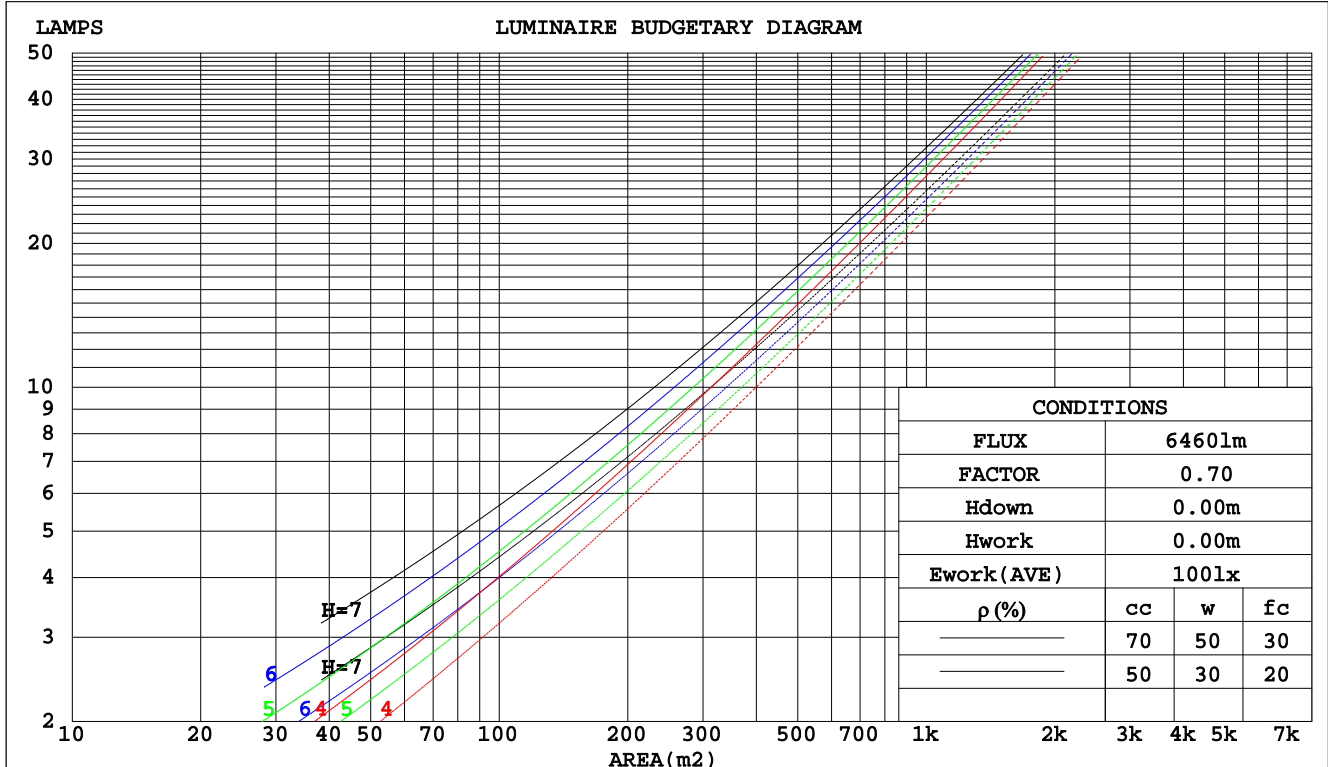
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	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						Coefficients of Utilization(CU)									
0.0	1.13	1.13	1.13	1.07	1.07	1.07	.96	.96	.96	.86	.86	.86	.77	.77	.77	.73
1.0	1.00	.97	.93	.95	.92	.89	.86	.84	.82	.78	.76	.75	.70	.69	.68	.64
2.0	.89	.83	.78	.85	.80	.75	.77	.73	.70	.70	.67	.64	.63	.61	.59	.56
3.0	.79	.72	.67	.76	.70	.64	.69	.64	.60	.63	.59	.56	.57	.54	.52	.48
4.0	.71	.63	.58	.68	.61	.56	.62	.57	.52	.57	.52	.49	.52	.48	.45	.43
5.0	.64	.56	.50	.61	.54	.49	.56	.50	.46	.52	.47	.43	.47	.43	.40	.38
6.0	.58	.50	.44	.56	.48	.43	.51	.45	.41	.47	.42	.38	.43	.39	.36	.34
7.0	.53	.45	.39	.51	.43	.38	.47	.41	.36	.43	.38	.34	.40	.36	.32	.30
8.0	.48	.41	.35	.46	.39	.34	.43	.37	.33	.40	.35	.31	.37	.32	.29	.27
9.0	.44	.37	.32	.43	.36	.31	.40	.34	.30	.37	.32	.28	.34	.30	.27	.25
10.0	.41	.34	.29	.39	.33	.28	.37	.31	.27	.34	.29	.26	.32	.27	.24	.23



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	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	.256	.145	.046	.240	.137	.044	.212	.122	.039	.186	.107	.034	.162	.094	.030		
2.0	.243	.133	.041	.230	.127	.039	.204	.114	.035	.181	.101	.032	.159	.090	.028		
3.0	.228	.122	.036	.216	.116	.035	.193	.105	.032	.172	.094	.029	.152	.084	.026		
4.0	.214	.111	.033	.203	.106	.031	.182	.096	.029	.162	.087	.026	.144	.078	.024		
5.0	.200	.102	.030	.190	.097	.028	.171	.089	.026	.153	.081	.024	.136	.073	.022		
6.0	.188	.094	.027	.178	.090	.026	.161	.082	.024	.144	.075	.022	.129	.068	.020		
7.0	.176	.087	.025	.168	.084	.024	.151	.077	.022	.136	.070	.020	.122	.063	.019		
8.0	.166	.081	.023	.158	.078	.022	.143	.071	.020	.129	.065	.019	.116	.059	.017		
9.0	.156	.076	.021	.149	.073	.020	.135	.067	.019	.122	.061	.018	.110	.056	.016		
10.0	.148	.071	.020	.141	.068	.019	.128	.063	.018	.116	.058	.016	.104	.052	.015		

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	.397	.397	.397	.339	.339	.339	.231	.231	.231	.133	.133	.133	.042	.042	.042	
1.0	.384	.364	.346	.329	.313	.298	.225	.215	.206	.129	.124	.120	.041	.040	.039	
2.0	.375	.341	.313	.321	.294	.271	.220	.203	.189	.127	.118	.111	.041	.038	.036	
3.0	.367	.324	.290	.314	.280	.252	.216	.194	.177	.125	.113	.104	.040	.037	.034	
4.0	.359	.311	.275	.308	.269	.239	.212	.188	.168	.123	.110	.099	.039	.036	.033	
5.0	.352	.301	.264	.303	.261	.229	.208	.182	.162	.121	.107	.096	.039	.035	.032	
6.0	.346	.293	.255	.297	.254	.222	.205	.178	.157	.119	.105	.094	.038	.034	.031	
7.0	.340	.287	.249	.292	.248	.217	.202	.174	.154	.117	.103	.092	.038	.034	.030	
8.0	.334	.281	.245	.288	.244	.213	.199	.171	.151	.116	.101	.090	.037	.033	.030	
9.0	.329	.277	.241	.283	.240	.210	.196	.169	.149	.114	.100	.089	.037	.033	.030	
10.0	.324	.273	.238	.279	.237	.208	.194	.167	.148	.113	.098	.088	.037	.032	.029	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm											
NAME: SUGAR 600-U-56W-840						TYPE:Ceiling light			WEIGHT:		
SPEC.:4000K						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	3H	9.4	10.4	10.0	11.0	11.7	9.4	10.4	10.0	11.0	11.7
	4H	9.9	10.8	10.5	11.4	12.2	9.9	10.8	10.5	11.5	12.2
	6H	10.1	11.0	10.7	11.6	12.4	10.1	11.0	10.7	11.6	12.3
	8H	10.2	11.0	10.9	11.7	12.5	10.2	11.0	10.9	11.7	12.5
	12H	10.2	11.0	10.9	11.7	12.5	10.2	11.0	10.9	11.6	12.4
	12H	10.2	10.9	10.9	11.6	12.4	10.1	10.9	10.8	11.6	12.4
4H	2H	9.5	10.4	10.2	11.1	11.8	9.5	10.4	10.1	11.0	11.8
	3H	10.2	10.9	10.8	11.6	12.4	10.2	10.9	10.9	11.6	12.4
	4H	10.5	11.1	11.2	11.8	12.7	10.5	11.2	11.2	11.9	12.7
	6H	10.7	11.3	11.4	12.0	12.9	10.7	11.3	11.4	12.0	12.9
	8H	10.7	11.2	11.5	12.0	12.9	10.7	11.3	11.5	12.0	12.9
	12H	10.7	11.2	11.4	11.9	12.8	10.7	11.2	11.4	11.9	12.8
8H	4H	10.5	11.0	11.2	11.8	12.7	10.5	11.1	11.3	11.8	12.7
	6H	10.8	11.2	11.6	12.0	13.0	10.8	11.3	11.6	12.1	13.0
	8H	10.9	11.3	11.7	12.1	13.0	10.9	11.3	11.7	12.1	13.1
	12H	10.9	11.2	11.7	12.0	13.0	10.9	11.2	11.7	12.0	13.0
12H	4H	10.4	10.9	11.2	11.7	12.6	10.5	11.0	11.2	11.7	12.6
	6H	10.8	11.2	11.6	12.0	12.9	10.8	11.2	11.6	12.0	13.0
	8H	10.9	11.2	11.7	12.0	13.0	10.9	11.2	11.7	12.1	13.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.6					+ 0.5 / - 0.5					
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.4					
2.0H	+ 1.3 / - 1.0					+ 1.2 / - 1.1					

CIE Pub.117, 6460 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 6.5$)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:

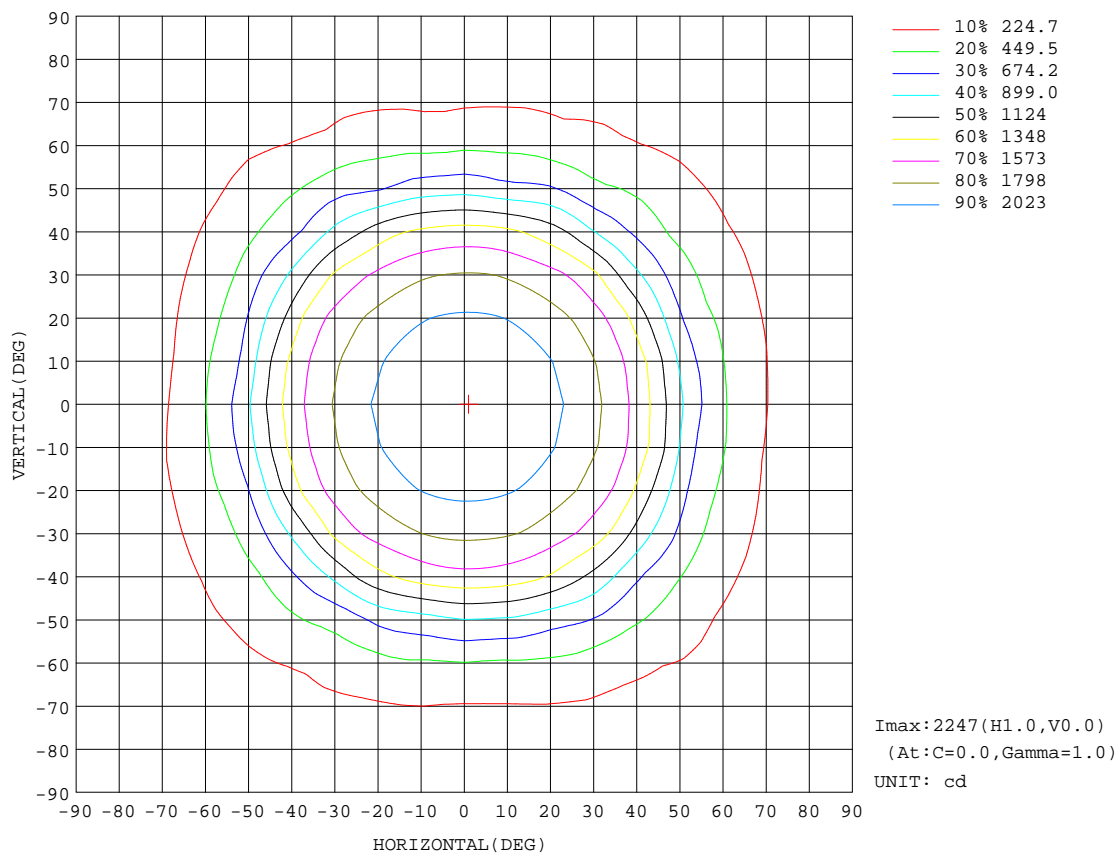
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	39	54	45	39	51	43	38	31
0.80	65	55	48	63	54	48	60	51	46	38
1.00	73	63	56	71	61	55	66	60	53	45
1.25	80	70	64	77	68	62	71	64	59	50
1.50	84	75	69	81	73	67	75	69	64	53
2.00	91	83	77	87	80	74	80	74	70	58
2.50	94	87	81	90	84	79	82	78	74	60
3.00	97	91	85	93	87	83	85	80	77	62
4.00	101	95	91	96	91	87	87	84	81	64
5.00	103	98	94	98	94	91	89	86	83	66
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:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:

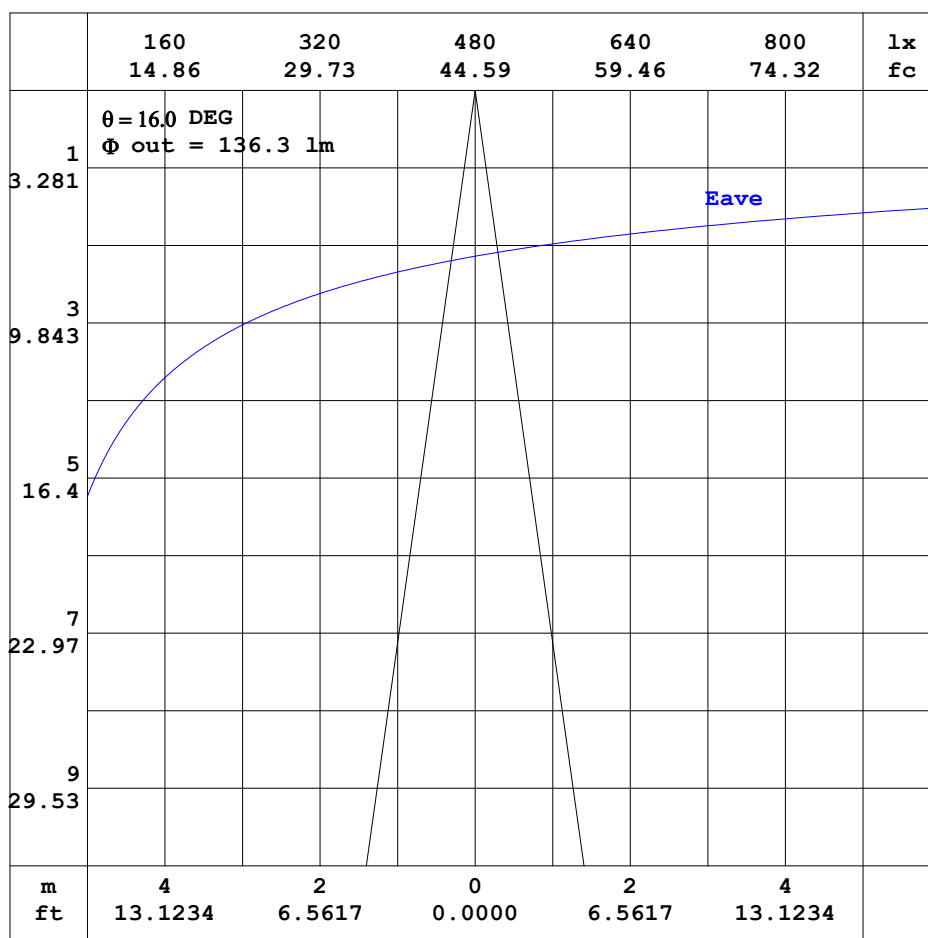


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:



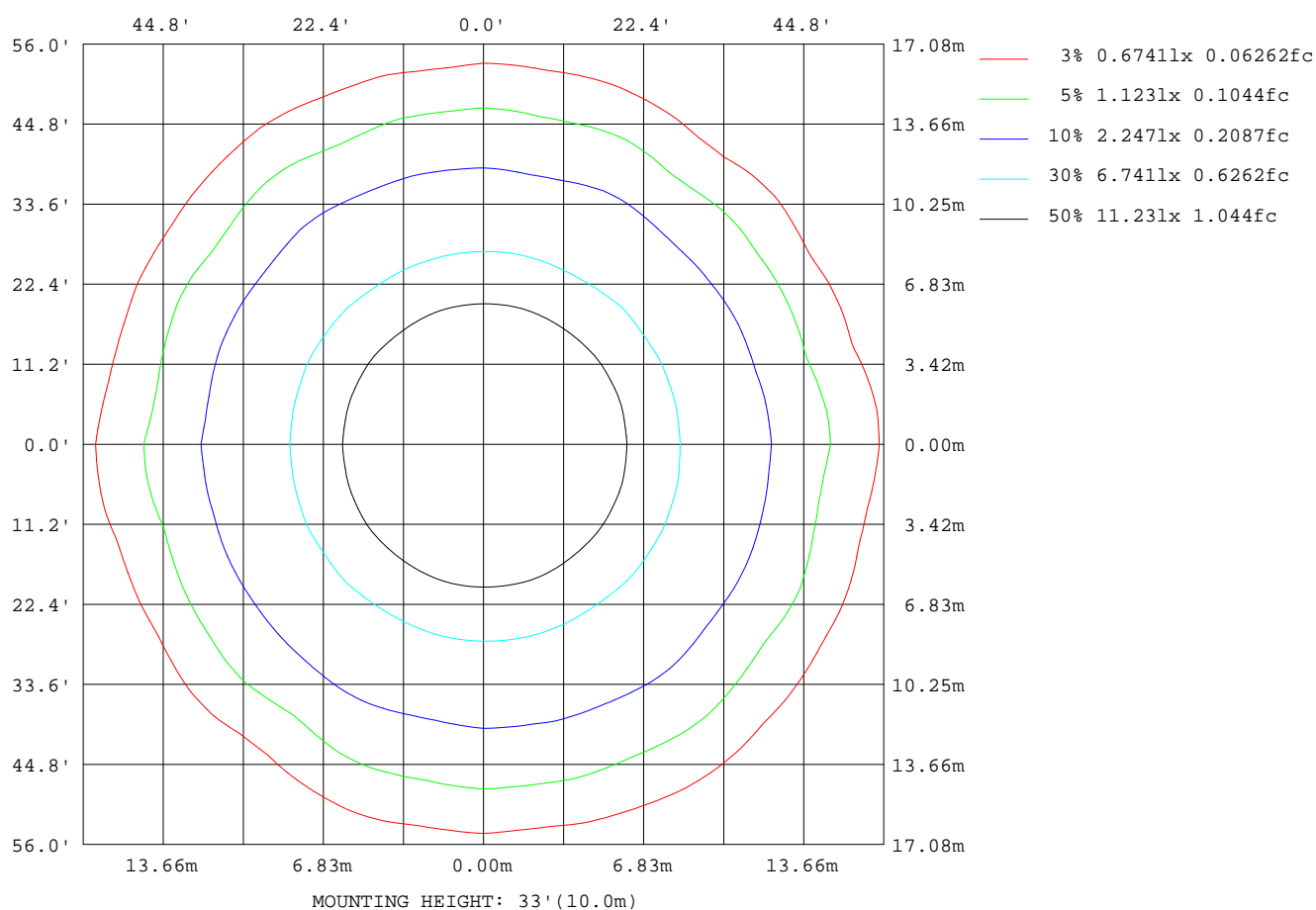
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	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
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	Shielding Angle:

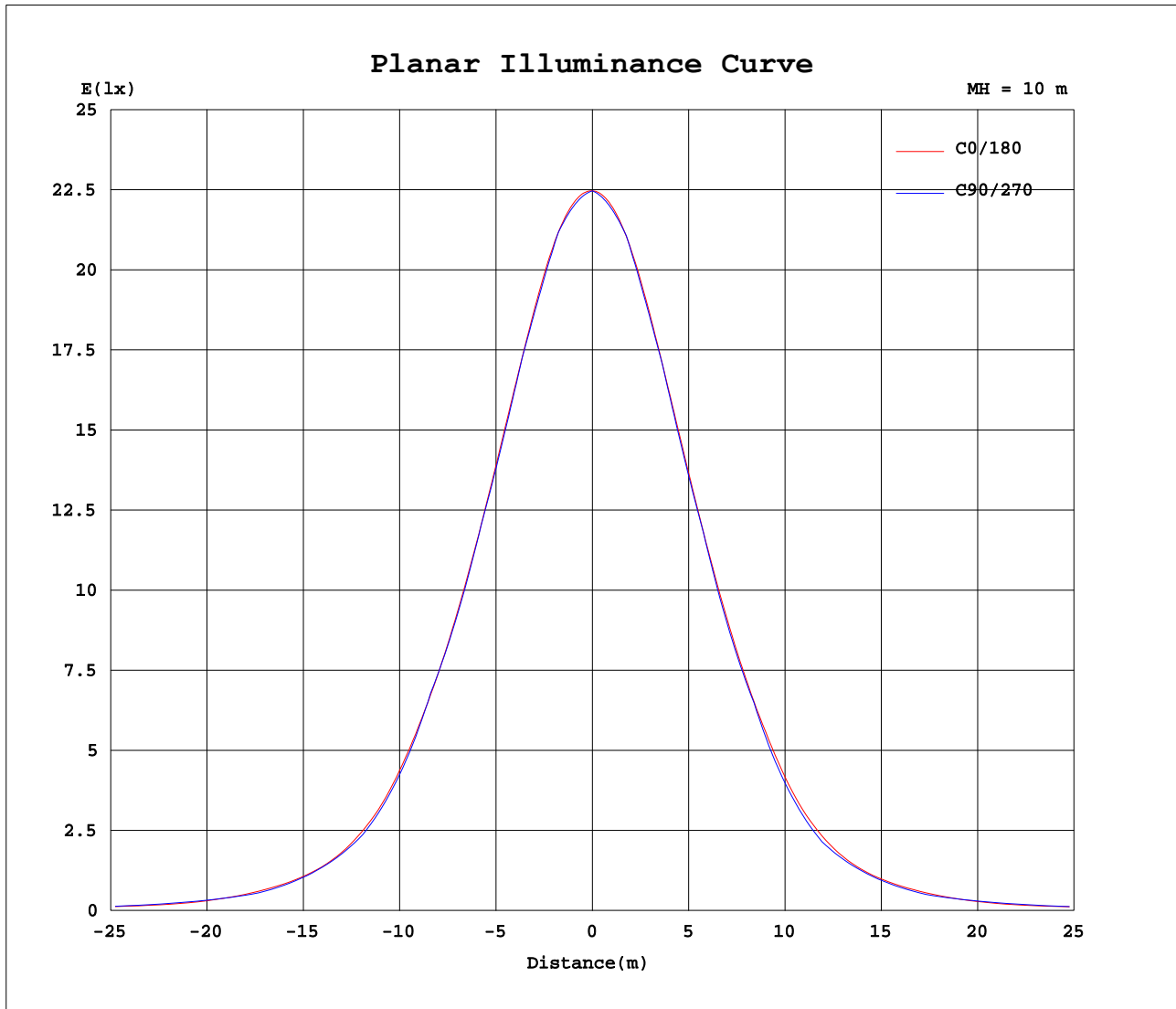
AvgL	cd/m2
L_0~180 (65) av	2359
L_0~180 (75) av	1979
L_0~180 (85) av	831
L_90~270 (65) av	2628
L_90~270 (75) av	1937
L_90~270 (85) av	0
L_45 (65) av	2559
L_45 (75) av	2006
L_45 (85) av	744

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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
Test Date: 2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	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	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247
5	2242	2241	2239	2238	2237	2236	2236	2235	2235	2234	2234	2234	2233	2233	2233	2232	2232	2232	2232
10	2217	2214	2211	2209	2208	2208	2208	2208	2209	2210	2211	2212	2214	2215	2216	2216	2217	2217	2217
15	2162	2158	2155	2153	2153	2155	2158	2161	2166	2164	2160	2157	2155	2153	2152	2151	2150	2149	2148
20	2082	2076	2073	2073	2076	2081	2085	2081	2078	2076	2076	2076	2077	2078	2079	2080	2080	2080	2079
25	1980	1973	1971	1973	1980	1980	1976	1974	1976	1979	1984	1982	1977	1974	1972	1970	1967	1966	1965
30	1853	1848	1850	1857	1859	1854	1853	1857	1861	1853	1849	1849	1851	1853	1854	1853	1852	1851	1851
35	1695	1694	1704	1719	1710	1711	1718	1710	1701	1698	1701	1707	1701	1697	1692	1688	1685	1683	1681
40	1499	1501	1517	1518	1515	1530	1521	1518	1524	1520	1499	1494	1498	1504	1507	1510	1512	1513	1511
45	1238	1243	1272	1247	1246	1247	1253	1277	1268	1255	1246	1255	1263	1252	1240	1227	1211	1204	1202
50	940	929	940	939	947	949	954	944	948	964	978	969	950	931	925	921	900	892	893
55	679	645	635	646	673	698	685	661	672	700	722	711	684	671	676	680	664	661	668
60	485	477	463	458	469	473	471	482	488	485	498	504	501	486	472	460	436	432	443
65	293	321	322	332	343	342	340	335	342	336	320	308	339	347	340	335	322	322	327
70	229	221	224	225	221	219	240	242	226	229	230	235	246	244	239	228	219	214	212
75	151	158	151	159	154	149	153	159	157	168	161	166	169	164	162	158	153	150	151
80	93.9	89.4	83.6	82.6	89.1	88.6	94.0	90.8	90.2	98.2	98.6	99.3	99.1	98.0	91.1	93.3	89.8	87.1	90.1
85	26.4	17.1	21.3	24.4	27.3	28.1	29.2	28.8	27.4	23.8	20.9	16.7	12.3	8.82	5.28	3.11	1.35	0.33	0.00
90	95.0	95.8	96.5	96.9	97.0	97.0	96.8	96.5	96.1	95.7	95.5	95.3	95.2	95.2	0.00	0.00	94.8	94.3	93.7
95	120	121	122	122	123	123	123	123	122	122	122	122	122	122	122	122	122	122	122
100	147	148	149	149	150	150	150	150	149	149	149	150	150	150	149	149	148	148	148
105	175	176	177	178	179	180	180	180	180	180	181	181	180	179	177	177	176	176	176
110	205	206	207	208	209	209	210	210	210	210	211	212	212	211	210	209	208	207	206
115	237	238	239	240	241	241	242	242	243	243	245	246	246	245	244	242	241	240	239
120	271	272	273	274	276	279	280	281	281	281	281	281	281	280	279	278	277	275	274
125	305	306	308	309	312	314	316	314	313	311	313	315	317	316	316	314	313	311	309
130	339	340	341	343	345	348	349	349	347	346	345	345	346	347	348	349	347	345	343
135	370	372	373	374	375	376	376	376	376	376	376	377	377	377	376	376	376	375	375
140	399	400	401	402	403	404	404	405	405	405	405	405	406	405	405	405	404	404	404
145	425	426	427	428	429	429	430	430	430	430	431	431	431	431	431	430	430	430	430
150	448	449	449	450	451	452	452	452	452	452	453	453	453	453	453	453	453	452	452
155	467	468	468	469	470	470	471	471	471	471	471	472	472	472	471	471	471	471	471
160	482	483	484	484	485	485	485	486	486	486	486	486	487	486	486	486	486	486	486
165	494	495	495	496	496	496	497	497	497	497	497	497	497	497	497	497	497	497	497
170	502	503	503	503	504	504	504	504	504	504	505	505	505	505	505	505	505	504	504
175	507	507	507	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508
180	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: φ600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:φ600mm	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	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247
5	2231	2231	2231	2231	2230	2230	2230	2230	2230	2230	2230	2230	2231	2231	2232	2233	2235	2236	2234
10	2216	2215	2213	2211	2209	2207	2204	2202	2200	2198	2196	2195	2195	2195	2196	2198	2200	2204	2199
15	2147	2146	2146	2145	2145	2144	2145	2145	2147	2147	2142	2137	2134	2132	2132	2133	2137	2142	2135
20	2078	2076	2073	2070	2067	2063	2059	2056	2054	2053	2053	2057	2052	2047	2044	2045	2048	2055	2046
25	1964	1962	1960	1959	1957	1957	1959	1959	1951	1946	1942	1941	1944	1943	1937	1936	1939	1948	1937
30	1849	1846	1840	1833	1827	1822	1819	1819	1821	1827	1821	1815	1813	1815	1812	1806	1807	1816	1806
35	1679	1675	1670	1665	1663	1667	1675	1667	1662	1660	1666	1672	1658	1651	1653	1643	1642	1653	1644
40	1506	1498	1487	1473	1462	1455	1453	1454	1467	1459	1441	1445	1465	1445	1444	1445	1439	1450	1438
45	1192	1183	1186	1195	1206	1214	1200	1169	1160	1156	1138	1137	1161	1171	1161	1171	1161	1180	1160
50	872	854	859	880	898	894	873	855	850	846	840	844	847	844	838	853	861	879	842
55	652	638	642	648	637	599	562	585	611	608	592	587	580	570	563	597	621	627	583
60	436	436	455	455	439	429	417	417	427	427	418	406	412	416	422	436	435	445	438
65	325	329	337	325	305	307	302	286	296	302	310	301	292	288	288	286	263	271	283
70	217	230	233	229	225	225	220	202	204	205	204	206	211	208	211	214	219	214	205
75	153	161	160	157	156	153	150	136	141	144	135	143	143	131	139	140	131	138	140
80	88.5	93.9	91.9	91.4	94.3	91.2	90.5	82.9	82.8	82.6	76.1	79.7	76.2	73.3	72.5	65.8	70.4	78.3	74.2
85	0.33	1.41	3.06	5.35	8.51	11.5	15.3	17.6	19.6	21.9	21.9	20.8	20.2	19.3	16.7	13.3	10.0	14.5	13.8
90	93.0	92.0	0.00	0.00	88.8	87.8	87.3	86.8	86.4	85.6	84.9	84.2	83.8	83.6	83.5	83.5	83.4	83.1	81.8
95	121	119	118	117	117	116	115	114	114	113	113	112	112	111	111	110	110	110	109
100	147	146	145	145	144	144	143	143	142	141	140	139	139	138	137	137	136	136	135
105	175	175	174	174	174	174	173	172	172	171	170	169	168	167	166	165	164	164	163
110	206	205	205	205	205	206	205	204	203	202	201	199	198	197	196	195	194	193	192
115	238	237	237	237	238	239	238	237	236	234	232	231	229	227	226	225	224	224	223
120	273	272	271	272	273	274	273	271	270	268	266	264	262	260	259	258	257	257	255
125	308	307	307	308	309	309	309	307	305	303	300	298	296	295	293	293	292	291	290
130	342	341	341	342	343	344	341	338	335	334	333	332	330	329	327	327	326	325	324
135	374	373	372	372	371	371	369	368	366	366	365	364	362	361	360	359	358	357	356
140	403	402	401	401	400	400	398	397	396	395	394	393	392	391	390	389	388	387	386
145	429	428	428	427	426	426	425	424	422	422	421	420	419	418	417	416	415	415	414
150	452	451	450	450	449	449	448	447	446	445	444	444	443	442	440	440	439	439	438
155	470	470	469	469	468	468	467	466	465	465	464	463	463	462	461	460	460	459	458
160	485	485	484	484	484	483	483	482	481	481	480	480	479	478	478	477	477	476	476
165	497	496	496	496	495	495	495	494	494	493	493	492	492	491	491	490	490	490	489
170	504	504	504	504	503	503	503	502	502	502	502	501	501	501	500	500	500	500	499
175	508	508	508	508	508	507	507	507	507	507	507	507	506	506	506	506	506	506	505
180	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm		
NAME: SUGAR 600-U-56W-840	TYPE:Ceiling light	WEIGHT:
SPEC.:4000K	DIM.: ϕ 600mm*H105mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.: ϕ 600mm	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	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247
5	2232	2231	2229	2228	2227	2226	2226	2225	2225	2225	2225	2225	2225	2225	2226	2226	2226	2227	2227
10	2195	2193	2190	2189	2189	2189	2189	2190	2192	2194	2196	2198	2200	2202	2203	2205	2206	2206	2206
15	2130	2127	2126	2126	2128	2131	2135	2133	2130	2129	2128	2127	2127	2127	2128	2129	2130	2131	2132
20	2040	2038	2038	2041	2045	2041	2039	2038	2039	2040	2042	2044	2046	2049	2050	2052	2054	2055	2055
25	1930	1929	1932	1931	1928	1928	1930	1934	1940	1937	1934	1933	1932	1931	1931	1932	1934	1936	1938
30	1802	1805	1805	1799	1800	1806	1810	1798	1793	1792	1795	1800	1805	1807	1809	1811	1814	1816	1817
35	1646	1656	1647	1649	1659	1647	1634	1629	1629	1636	1631	1628	1627	1626	1626	1627	1629	1631	1633
40	1444	1439	1436	1453	1439	1432	1437	1433	1410	1405	1412	1421	1426	1430	1435	1440	1443	1444	1444
45	1168	1150	1147	1145	1144	1155	1157	1154	1143	1147	1160	1156	1147	1139	1129	1125	1127	1121	1117
50	837	848	858	854	851	838	838	854	878	870	848	827	821	825	815	807	810	793	775
55	569	582	595	611	606	582	590	615	637	630	597	580	589	604	597	595	607	596	580
60	426	418	416	420	417	421	432	436	436	442	440	428	419	414	391	385	404	403	403
65	288	292	307	311	300	292	297	298	280	266	296	308	306	302	285	283	301	303	304
70	205	203	195	185	207	216	205	201	197	196	214	218	216	208	189	183	197	206	210
75	127	137	135	128	133	138	134	142	135	130	141	141	139	136	126	124	132	135	140
80	74.5	71.2	72.3	70.1	72.1	70.7	67.5	73.4	73.7	70.6	72.0	71.3	66.3	67.5	65.2	65.0	67.8	64.6	71.2
85	14.4	14.2	15.1	12.5	10.9	13.5	14.6	14.2	13.2	11.0	8.28	6.01	3.68	2.20	0.97	0.25	0.00	0.24	1.06
90	80.4	79.2	78.8	78.7	78.7	78.4	78.2	78.1	78.5	79.1	79.7	80.1	80.6	81.2	82.2	83.3	84.3	84.5	84.7
95	108	107	107	106	106	106	106	106	106	106	106	106	107	107	108	108	108	109	110
100	134	133	133	133	132	132	132	132	132	132	132	132	133	133	133	133	133	134	135
105	162	161	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	161	162
110	191	190	189	189	189	189	189	189	189	189	190	190	190	190	190	189	189	189	190
115	221	220	219	219	219	219	219	219	219	220	220	220	221	221	220	219	219	219	220
120	254	253	252	251	251	251	251	251	252	253	253	254	254	254	253	252	252	252	253
125	289	287	286	286	285	285	285	285	286	287	288	289	289	290	288	287	286	287	288
130	323	321	320	320	319	319	319	319	319	320	321	322	323	324	323	321	320	320	321
135	355	354	353	352	352	351	351	351	350	350	350	351	352	353	353	352	352	353	354
140	385	384	383	382	382	382	381	381	381	380	380	381	381	381	382	382	382	383	384
145	413	412	411	410	410	409	409	409	409	408	408	408	409	409	409	409	410	410	411
150	437	436	435	435	434	434	434	434	433	433	433	433	433	434	434	434	434	435	435
155	458	457	456	456	455	455	455	455	454	454	454	454	454	455	455	455	455	456	456
160	475	474	474	474	473	473	473	473	472	472	472	472	472	472	473	473	473	473	474
165	489	488	488	488	487	487	487	487	487	486	486	486	487	487	487	487	487	487	488
170	499	498	498	498	498	498	498	498	497	497	497	497	497	498	498	498	498	498	498
175	505	505	505	505	505	505	505	505	505	505	504	505	505	505	505	505	505	505	505
180	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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:220.5V I:0.2657A P:58.61W PF:0.9854 Freq:49.70Hz Lamp Flux:6459.87x1 lm																	
NAME: SUGAR 600-U-56W-840									TYPE:Ceiling light						WEIGHT:		
SPEC.:4000K									DIM.: φ600mm*H105mm						SERIAL No.:		
MFR.: NEKO LIGHTING AG									SUR.:φ600mm						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	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247	2247				
5	2227	2228	2228	2229	2229	2230	2230	2231	2232	2233	2234	2235	2237	2239	2240				
10	2206	2206	2205	2205	2204	2203	2202	2201	2201	2202	2203	2204	2206	2209	2213				
15	2134	2136	2138	2140	2143	2146	2151	2154	2151	2148	2147	2147	2149	2151	2156				
20	2056	2056	2056	2055	2055	2056	2058	2061	2066	2073	2071	2067	2067	2069	2074				
25	1939	1941	1943	1947	1952	1956	1954	1953	1954	1958	1966	1969	1965	1966	1970				
30	1815	1812	1809	1808	1810	1814	1821	1832	1832	1831	1836	1845	1846	1842	1844				
35	1634	1634	1636	1646	1662	1660	1660	1664	1675	1685	1680	1683	1697	1688	1686				
40	1439	1428	1418	1416	1422	1436	1463	1460	1450	1457	1482	1474	1485	1495	1489				
45	1125	1139	1153	1161	1149	1131	1136	1151	1147	1146	1175	1193	1207	1243	1226				
50	787	822	857	862	838	816	812	830	838	857	871	871	875	906	919				
55	585	600	607	584	547	563	592	598	588	598	600	598	592	632	667				
60	415	414	402	405	401	405	417	427	418	403	422	430	433	461	480				
65	307	293	269	281	289	283	293	300	310	302	296	296	305	305	288				
70	213	208	199	208	209	197	198	200	207	209	212	214	221	225	232				
75	142	140	136	140	137	129	136	139	136	143	145	140	148	155	143				
80	73.8	76.6	78.1	78.4	76.6	72.5	75.1	76.0	74.1	78.3	78.7	79.7	87.1	87.3	92.1				
85	2.43	4.42	6.91	9.50	12.1	13.9	15.7	17.0	17.1	15.6	17.7	20.2	22.4	23.3	24.9				
90	84.8	85.4	86.0	86.7	87.3	87.9	88.5	89.3	90.1	90.9	91.7	92.5	93.3	93.9	94.5				
95	110	111	111	112	112	113	114	115	115	116	117	118	119	119	120				
100	136	137	137	138	139	141	142	143	143	144	145	145	146	146	146				
105	163	164	166	167	168	170	171	172	173	174	175	175	175	175	175				
110	191	193	195	197	198	200	201	203	204	205	206	206	207	206	206				
115	222	223	225	227	229	231	232	234	236	237	238	238	238	238	238				
120	255	257	259	261	263	264	266	268	269	271	272	272	272	272	272				
125	289	291	293	296	298	299	301	302	302	303	305	306	307	307	307				
130	323	325	327	330	330	331	331	331	331	332	335	338	341	341	341				
135	355	356	357	357	359	360	361	362	363	364	365	367	368	369	370				
140	385	385	386	387	388	389	390	391	392	393	394	396	397	398	399				
145	412	412	413	414	415	416	417	418	418	419	420	422	423	424	425				
150	436	437	437	438	438	439	440	441	442	443	444	445	446	447	447				
155	457	457	458	458	459	460	461	461	462	462	463	464	465	466	466				
160	474	474	475	475	476	476	477	478	478	479	479	480	481	481	482				
165	488	488	489	489	489	490	490	491	491	491	492	493	493	494	494				
170	498	499	499	499	499	500	500	500	500	501	501	501	502	502	502				
175	505	505	505	505	505	506	506	506	506	506	506	507	507	507	507				
180	508	508	508	508	508	508	508	508	508	508	508	508	508	508	508				

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:Jason
Test Date:2019-11-14

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: