

SKOI-5W-930-Black



Light Output Ratio:	100.0%	
Luminaire Power:	6.61 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

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

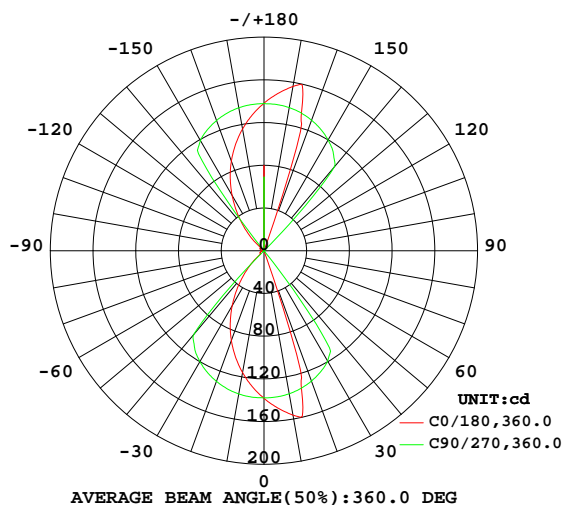
γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.000m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

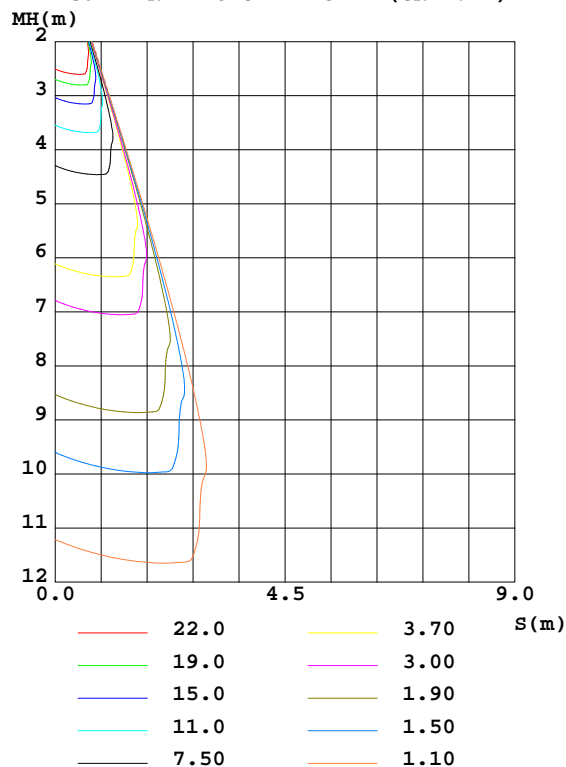
Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 39.04 lm/W
MODEL	Zigen-3000K	Imax(cd)	160.8	S/MH(C0/180)	0.78	
NOMINAL POWER(W)	6.5	LOR(%)	100.0	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	258.04	η UP,DN(C0-180)	25.8,23.7	
NOMINAL FLUX(lm)	258.045	CIE CLASS	DIFFUSE	η UP,DN(C180-360)	24.2,26.3	
LAMPS INSIDE	1	η up(%)	50.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	220.0	η down(%)	50.0	CIBSE SHR MAX	1.00	

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:

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

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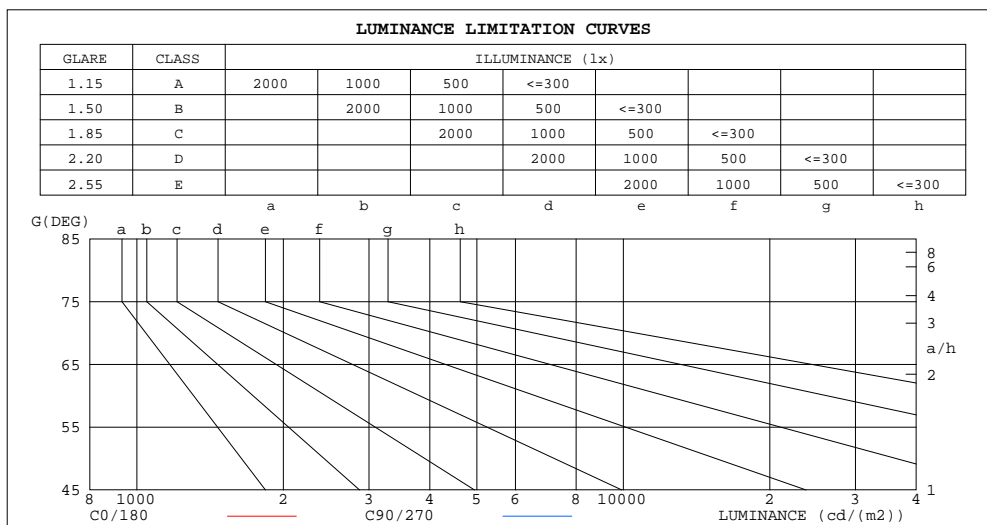
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	156.3	150.2	136.0	121.7	115.9	121.6	136.2	150.1	0- 10	13.07	13.07	5.06,5.06
20	0.9927	150.5	129.9	101.5	89.42	101.3	130.2	155.9	10- 20	36.02	49.08	19,19
30	0.1098	0.5587	119.1	77.60	59.80	77.52	120.0	0.7899	20- 30	37.79	86.87	33.7,33.7
40	0.0628	0.1931	1.544	50.74	29.33	50.84	101.9	0.3243	30- 40	27.15	114.0	44.2,44.2
50	0.0366	0.0261	1.202	15.92	4.004	22.40	1.300	0.0626	40- 50	12.30	126.3	49,49
60	0.0314	0.0051	0.8105	0.7045	4.523	0.9692	0.9248	0.0366	50- 60	1.293	127.6	49.5,49.5
70	0.0261	0	0.4760	0.3187	3.579	0.3503	0.5431	0.0208	60- 70	0.8493	128.5	49.8,49.8
80	0.0105	0	0.1622	0.1203	1.564	0.2037	0.1094	0.0052	70- 80	0.4292	128.9	49.9,49.9
90	0	0	0.0366	0.0888	1.448	0.0209	0	0	80- 90	0.1347	129.0	50,50
100	0.0105	0.0052	0.1094	0.2037	1.564	0.1203	0.1622	0.0000	90-100	0.1349	129.2	50.1,50.1
110	0.0261	0.0208	0.5431	0.3503	3.579	0.3187	0.4760	0	100-110	0.4292	129.6	50.2,50.2
120	0.0314	0.0366	0.9248	0.9692	4.523	0.7045	0.8105	0.0051	110-120	0.8493	130.4	50.5,50.5
130	0.0366	0.0626	1.300	22.40	4.004	15.92	1.202	0.0261	120-130	1.293	131.7	51,51
140	0.0628	0.3243	101.9	50.84	29.33	50.74	1.544	0.1931	130-140	12.30	144.0	55.8,55.8
150	0.1098	0.7899	120.0	77.52	59.80	77.60	119.1	0.5587	140-150	27.15	171.2	66.3,66.3
160	0.9927	155.9	130.2	101.3	89.42	101.5	129.9	150.5	150-160	37.79	209.0	81,81
170	156.3	150.1	136.2	121.6	115.9	121.7	136.0	150.2	160-170	36.02	245.0	94.9,94.9
180	138.2	138.2	138.2	138.2	138.2	138.2	138.2	138.2	170-180	13.07	258.0	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:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	12	66
80	6	93
75	8	115
70	8	139
65	7	153
60	6	162
55	6	176
50	6	187
45	6	192

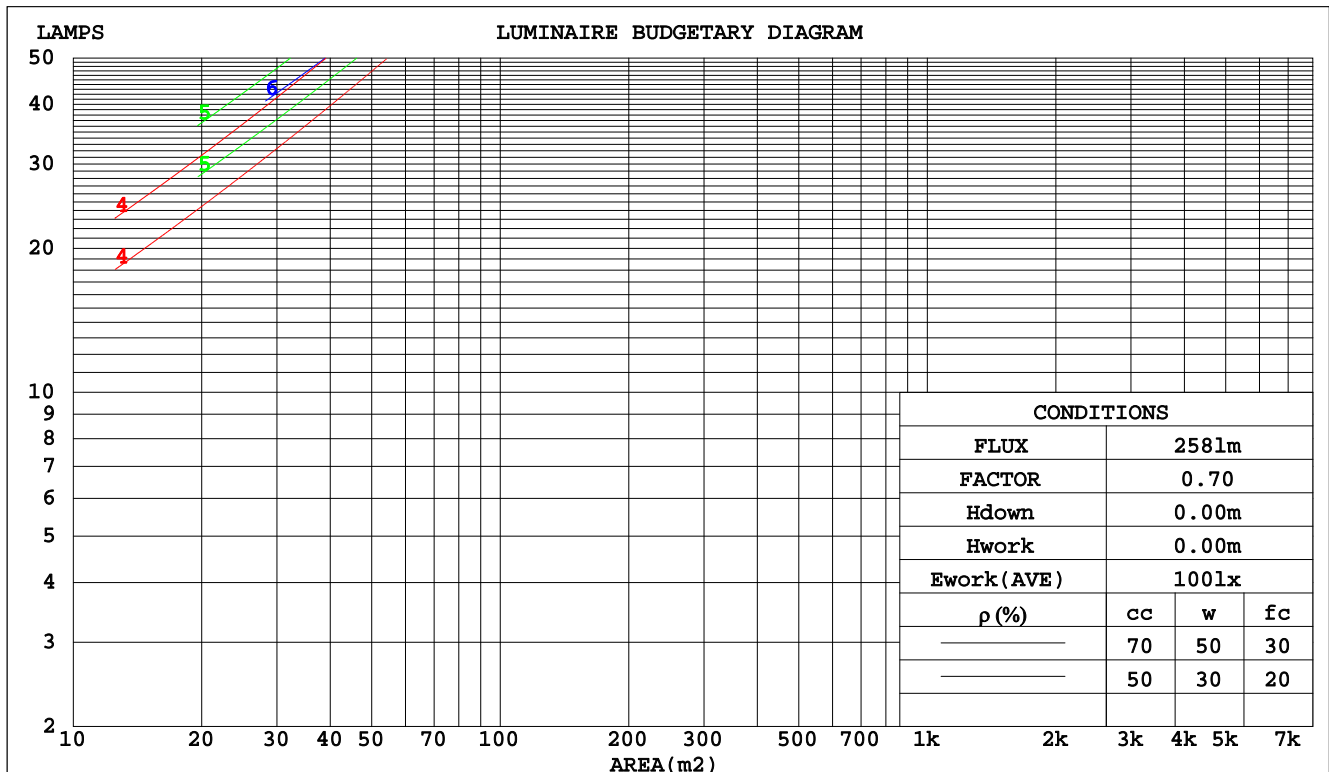
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Test Speed: MEDIUM
Temperature:25.3DEG
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γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	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	1.07	1.07	1.07	.99	.99	.99	.83	.83	.83	.69	.69	.69	.56	.56	.56	.50
1.0	.97	.93	.91	.89	.87	.85	.76	.75	.73	.64	.63	.62	.53	.52	.52	.47
2.0	.87	.82	.78	.81	.77	.74	.70	.67	.64	.59	.58	.56	.50	.49	.47	.43
3.0	.79	.73	.69	.74	.69	.65	.64	.61	.58	.55	.53	.51	.47	.45	.44	.40
4.0	.72	.66	.61	.68	.62	.58	.59	.55	.52	.51	.48	.46	.44	.42	.40	.37
5.0	.66	.59	.54	.62	.56	.52	.55	.50	.47	.48	.45	.42	.41	.39	.37	.34
6.0	.61	.54	.49	.57	.51	.47	.51	.46	.43	.45	.41	.39	.39	.36	.35	.32
7.0	.56	.49	.45	.53	.47	.43	.47	.43	.39	.42	.38	.36	.36	.34	.32	.30
8.0	.52	.45	.41	.49	.43	.39	.44	.39	.36	.39	.36	.33	.34	.32	.30	.28
9.0	.48	.42	.37	.46	.40	.36	.41	.37	.33	.37	.33	.31	.33	.30	.28	.26
10.0	.45	.39	.35	.43	.37	.33	.39	.34	.31	.35	.31	.29	.31	.28	.26	.25



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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	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	.220	.125	.040	.199	.113	.036	.157	.090	.029	.120	.069	.022	.085	.049	.016		
2.0	.206	.113	.035	.187	.103	.032	.149	.083	.026	.115	.065	.020	.083	.047	.015		
3.0	.193	.103	.031	.175	.094	.028	.141	.077	.023	.110	.060	.018	.081	.045	.014		
4.0	.181	.094	.028	.165	.086	.025	.134	.071	.021	.105	.056	.017	.078	.042	.013		
5.0	.170	.087	.025	.155	.080	.023	.127	.066	.019	.100	.053	.016	.075	.040	.012		
6.0	.160	.080	.023	.146	.074	.021	.120	.061	.018	.095	.050	.015	.072	.038	.011		
7.0	.151	.075	.021	.138	.069	.020	.114	.058	.017	.091	.047	.014	.070	.036	.011		
8.0	.143	.070	.020	.131	.065	.018	.108	.054	.015	.087	.044	.013	.067	.034	.010		
9.0	.136	.066	.018	.125	.061	.017	.103	.051	.014	.083	.042	.012	.064	.033	.009		
10.0	.129	.062	.017	.118	.057	.016	.099	.048	.014	.080	.040	.011	.062	.031	.009		

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	.571	.571	.571	.488	.488	.488	.333	.333	.333	.191	.191	.191	.061	.061	.061	
1.0	.558	.541	.526	.478	.464	.452	.327	.319	.313	.188	.185	.182	.060	.060	.059	
2.0	.548	.519	.495	.469	.447	.428	.321	.309	.298	.185	.180	.175	.059	.058	.057	
3.0	.538	.503	.474	.462	.434	.411	.317	.301	.288	.183	.176	.170	.059	.057	.056	
4.0	.531	.490	.459	.455	.423	.399	.313	.295	.281	.181	.173	.166	.058	.056	.055	
5.0	.524	.480	.448	.450	.415	.390	.310	.290	.275	.179	.170	.163	.058	.056	.054	
6.0	.517	.472	.440	.445	.409	.383	.307	.286	.271	.178	.168	.161	.057	.055	.053	
7.0	.511	.466	.434	.440	.404	.378	.304	.283	.268	.177	.167	.159	.057	.055	.053	
8.0	.506	.460	.429	.436	.399	.374	.301	.280	.265	.175	.165	.158	.057	.054	.052	
9.0	.501	.456	.425	.432	.396	.371	.299	.278	.263	.174	.164	.157	.056	.054	.052	
10.0	.497	.452	.422	.428	.393	.368	.297	.276	.262	.173	.163	.156	.056	.054	.052	

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm										
NAME: SKOI-5W-930-Black					TYPE:Downlight			WEIGHT:		
SPEC.:3000K					DIM.: L100*W100*H70mm			SERIAL No.:		
MFR.: NEKO LIGHTING AG					SUR.:L100*W100			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	-23.4	-22.6	-22.6	-21.8	-20.8	8.2	9.0	9.0	9.8	10.8
3H	-23.4	-22.7	-22.5	-21.9	-20.8	7.9	8.6	8.8	9.4	10.5
4H	-23.2	-22.6	-22.3	-21.7	-20.6	7.8	8.4	8.6	9.2	10.3
6H	-23.2	-22.6	-22.3	-21.7	-20.6	7.6	8.2	8.5	9.1	10.2
8H	-23.0	-22.5	-22.1	-21.6	-20.5	7.5	8.1	8.4	9.0	10.1
12H	-22.7	-22.2	-21.8	-21.3	-20.1	7.4	8.0	8.4	8.9	10.0
4H 2H	-22.4	-21.7	-21.5	-20.9	-19.8	7.7	8.3	8.6	9.2	10.3
3H	-22.5	-21.9	-21.5	-21.0	-19.9	7.4	7.9	8.3	8.8	10.0
4H	-22.4	-22.0	-21.5	-21.0	-19.8	7.2	7.7	8.2	8.6	9.8
6H	-22.5	-22.1	-21.5	-21.1	-19.9	7.1	7.5	8.0	8.4	9.6
8H	-22.4	-22.0	-21.4	-21.1	-19.8	7.0	7.3	8.0	8.3	9.5
12H	-22.1	-21.8	-21.1	-20.8	-19.6	6.9	7.2	7.9	8.2	9.5
8H 4H	-22.4	-22.0	-21.4	-21.1	-19.8	6.9	7.3	7.9	8.3	9.5
6H	-22.5	-22.1	-21.4	-21.2	-19.9	6.8	7.1	7.8	8.1	9.3
8H	-22.4	-22.1	-21.4	-21.1	-19.8	6.7	6.9	7.7	7.9	9.2
12H	-22.2	-21.9	-21.1	-20.9	-19.6	6.6	6.8	7.6	7.8	9.1
12H 4H	-22.5	-22.1	-21.5	-21.1	-19.9	6.9	7.2	7.8	8.2	9.4
6H	-22.5	-22.2	-21.5	-21.2	-19.9	6.7	6.9	7.7	7.9	9.2
8H	-22.5	-22.2	-21.4	-21.2	-19.9	6.6	6.8	7.6	7.8	9.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.7 / - 2.3					+ 7.2 / -14.6				
1.5H	+ 3.1 / - 3.1					+10.0 / -17.8				
2.0H	+ 2.3 / - 5.4					+ 4.1 / - 8.2				

CIE Pub.117, 258.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -4.7$)

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

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
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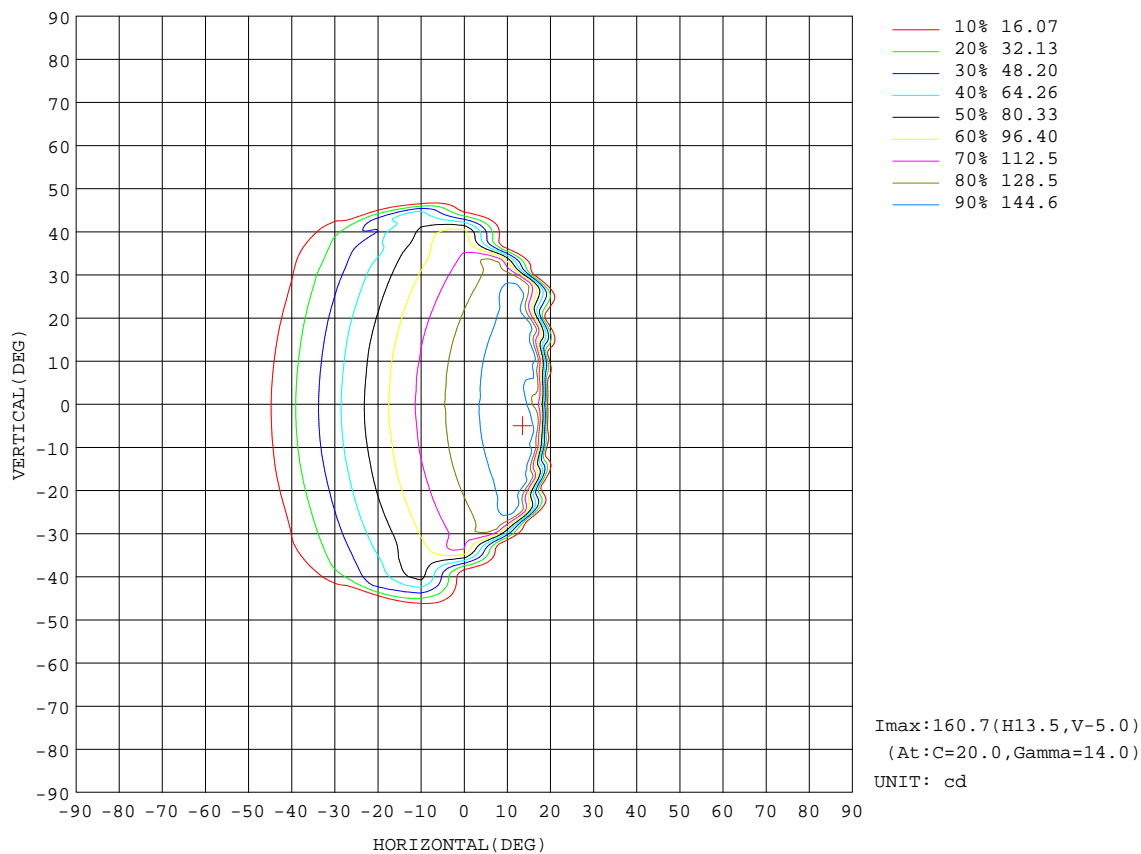
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	50	45	55	48	44	51	45	41	35
0.80	66	58	53	63	55	51	57	51	48	39
1.00	72	64	58	68	61	56	61	56	52	41
1.25	78	70	64	73	66	62	65	60	57	43
1.50	82	74	69	77	70	66	68	63	60	45
2.00	87	80	75	82	76	71	71	67	64	46
2.50	91	84	79	84	79	75	73	69	67	47
3.00	93	88	83	87	82	78	75	72	69	47
4.00	97	92	88	90	86	83	77	74	72	48
5.00	99	95	92	91	88	86	78	76	74	49
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

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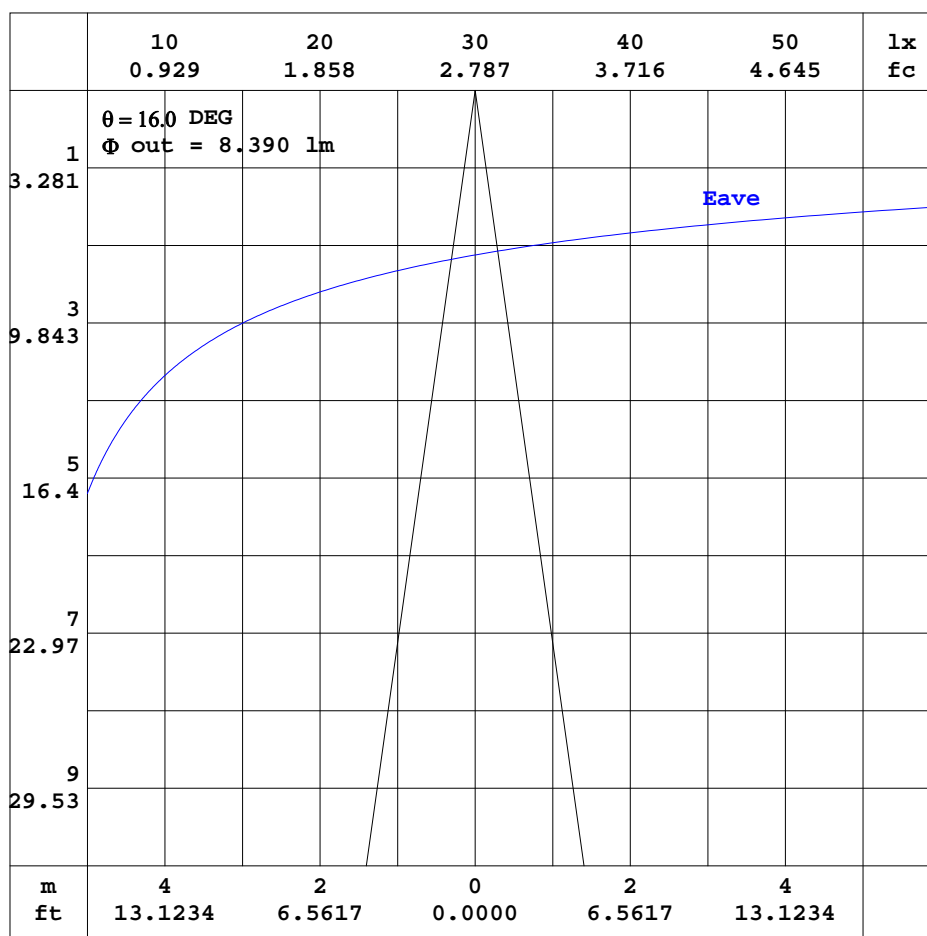


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Remarks:

AAI CURVES

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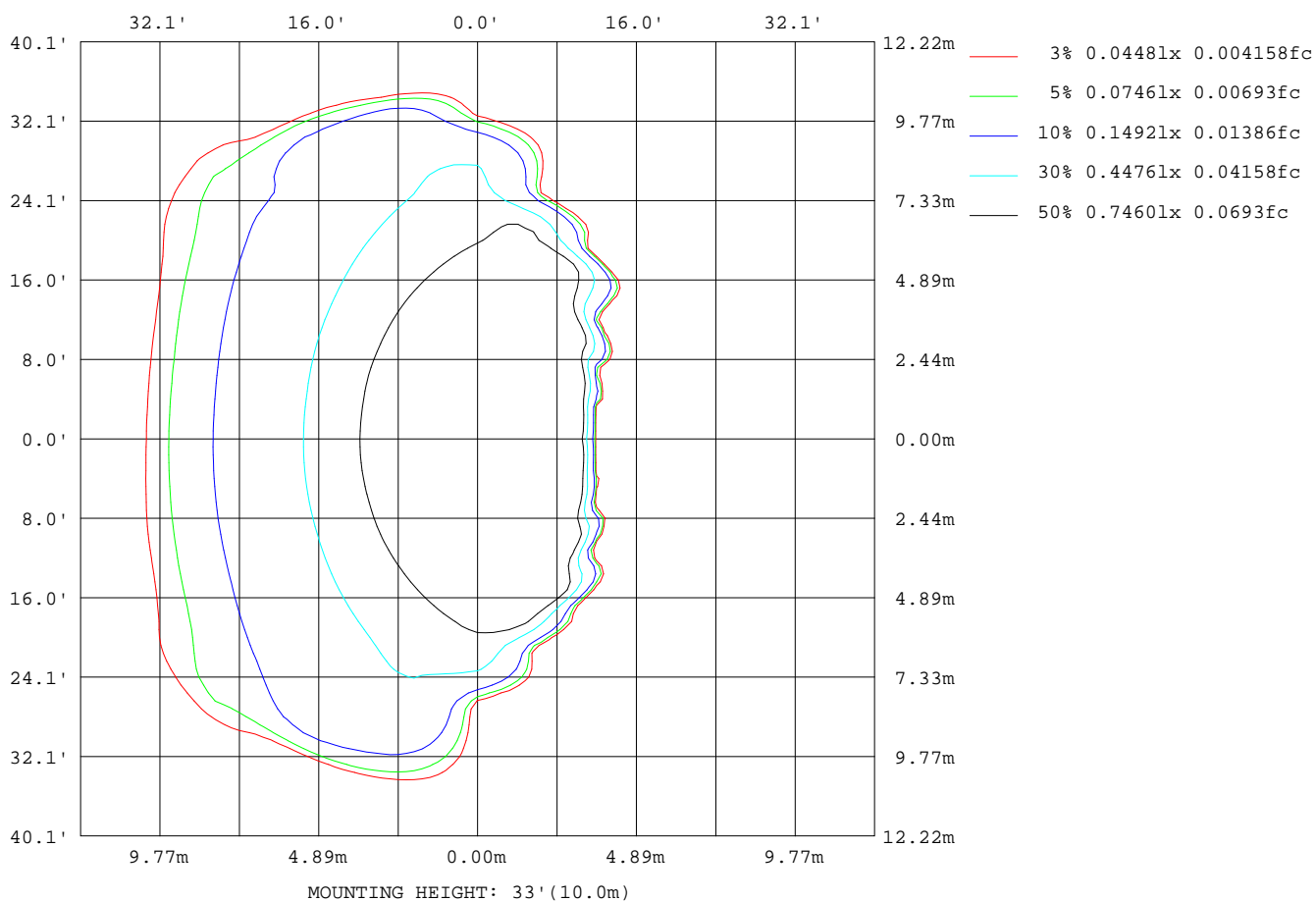
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	Shielding Angle:



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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	Shielding Angle:

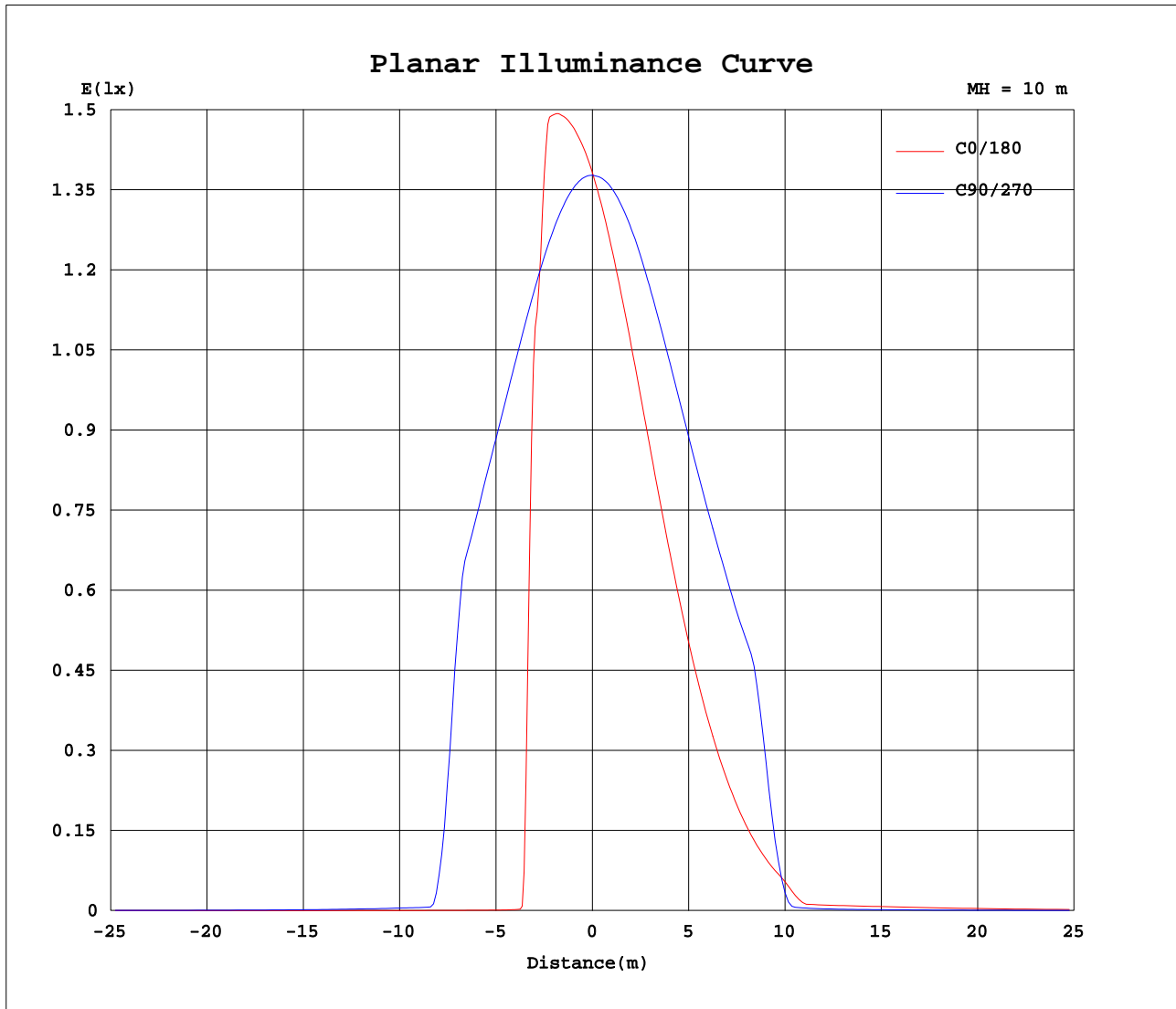
AvgL	cd/m2
L_0~180(65)av	506
L_0~180(75)av	553
L_0~180(85)av	102
L_90~270(65)av	166
L_90~270(75)av	119
L_90~270(85)av	54
L_45(65)av	54
L_45(75)av	44
L_45(85)av	32

Standard: GB/T 29293-2012

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



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

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	Shielding Angle:

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138
5	148	148	147	147	147	147	146	146	145	144	144	143	142	142	141	140	139	138	137
10	156	156	156	155	155	154	154	153	151	150	149	147	146	144	143	141	139	138	136
15	137	145	152	157	159	160	160	158	157	155	153	151	148	146	144	141	139	136	134
20	0.99	0.00	0.34	13.0	40.3	71.7	103	124	140	151	154	153	150	147	144	140	137	133	130
25	0.15	0.19	0.23	0.29	0.00	0.00	0.54	10.7	26.3	47.6	83.7	120	149	152	147	138	134	130	125
30	0.11	0.12	0.14	0.18	0.22	0.27	0.33	0.00	0.00	0.56	6.51	17.1	33.5	66.0	99.3	127	131	127	119
35	0.08	0.07	0.06	0.07	0.10	0.15	0.19	0.23	0.28	0.34	0.47	0.61	0.76	0.00	0.00	1.13	30.8	63.9	93.7
40	0.06	0.04	0.02	0.03	0.05	0.08	0.12	0.13	0.15	0.19	0.30	0.42	0.56	0.70	0.84	0.99	0.00	0.00	1.54
45	0.04	0.03	0.03	0.03	0.04	0.05	0.06	0.06	0.06	0.09	0.17	0.28	0.41	0.57	0.74	0.91	0.00	0.00	1.36
50	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.03	0.02	0.03	0.08	0.16	0.27	0.43	0.61	0.79	0.97	1.11	1.20
55	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.02	0.02	0.04	0.08	0.15	0.27	0.41	0.57	0.75	0.90	1.01
60	0.03	0.04	0.04	0.05	0.05	0.04	0.04	0.02	0.01	0.01	0.02	0.05	0.09	0.16	0.24	0.35	0.52	0.68	0.81
65	0.03	0.02	0.01	0.01	0.01	0.02	0.02	0.01	0.00	0.00	0.02	0.05	0.08	0.10	0.13	0.19	0.34	0.51	0.65
70	0.03	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.03	0.05	0.04	0.04	0.07	0.20	0.35	0.48
75	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.03	0.06	0.14	0.22	0.30
80	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.06	0.12	0.16
85	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.04	0.06
90	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.04
95	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.04
100	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.02	0.04	0.06	0.09	0.11
105	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.03	0.07	0.15	0.24	0.32
110	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.02	0.01	0.00	0.01	0.04	0.10	0.18	0.30	0.43	0.54
115	0.03	0.03	0.03	0.02	0.01	0.00	0.00	0.01	0.02	0.03	0.01	0.00	0.01	0.09	0.21	0.35	0.50	0.64	0.76
120	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.02	0.03	0.04	0.01	0.00	0.02	0.17	0.35	0.55	0.70	0.83	0.92
125	0.04	0.03	0.03	0.03	0.02	0.01	0.01	0.01	0.02	0.04	0.04	0.07	0.14	0.34	0.57	0.79	0.91	1.00	1.05
130	0.04	0.03	0.03	0.03	0.02	0.01	0.01	0.01	0.03	0.06	0.11	0.18	0.30	0.51	0.74	0.96	1.12	1.23	1.30
135	0.04	0.04	0.04	0.03	0.01	0.00	0.01	0.05	0.11	0.18	0.25	0.34	0.46	0.26	0.38	1.09	0.67	2.88	9.49
140	0.06	0.05	0.04	0.04	0.03	0.03	0.06	0.13	0.22	0.32	0.43	0.55	0.69	0.00	0.00	1.24	34.4	70.6	102
145	0.08	0.07	0.07	0.08	0.08	0.11	0.15	0.24	0.36	0.50	0.00	0.00	1.02	32.8	68.8	102	112	115	113
150	0.11	0.12	0.14	0.17	0.20	0.25	0.32	0.00	0.00	0.79	44.9	93.9	138	146	143	135	131	126	120
155	0.15	0.21	0.27	0.35	0.00	0.00	0.61	29.5	63.9	98.5	122	139	150	150	145	138	134	130	126
160	0.99	0.00	0.00	15.1	51.2	91.5	129	145	153	156	156	154	150	147	144	140	137	134	130
165	137	134	134	137	144	152	159	159	158	155	153	151	149	146	144	141	139	136	134
170	156	156	155	155	154	154	153	152	151	150	149	148	146	145	143	141	140	138	136
175	148	147	147	147	146	146	146	145	145	144	144	143	142	142	141	140	139	138	138
180	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	138	138	138	138	138	138	138	138	138	138	138	137	138	138	138	138	138	138	138
5	137	136	135	134	133	132	132	131	130	130	129	128	128	128	128	128	128	128	128
10	134	133	131	129	127	126	124	123	122	120	119	118	117	117	116	116	116	116	116
15	131	128	126	123	121	118	116	114	112	110	108	107	106	105	104	104	103	103	103
20	126	123	120	116	113	110	107	104	102	99.0	96.7	94.7	93.1	91.8	90.8	90.1	89.6	89.4	89.5
25	121	117	113	108	104	100	96.6	93.2	90.0	86.9	84.1	81.6	79.6	78.0	76.7	75.8	75.1	74.9	75.0
30	115	110	105	99.6	94.6	89.8	85.5	81.4	77.6	73.9	70.6	67.7	65.4	63.5	62.0	60.9	60.1	59.8	59.9
35	100	99.8	94.5	90.1	84.6	78.6	73.6	68.9	64.5	60.3	56.5	53.1	50.5	48.5	46.8	45.6	44.7	44.4	44.5
40	29.4	59.6	85.2	85.0	77.4	66.1	60.6	55.5	50.7	46.2	42.1	38.6	35.8	33.6	31.9	30.5	29.7	29.3	29.5
45	15.1	30.6	45.1	50.7	52.9	52.1	48.2	42.8	36.9	32.2	28.1	24.4	21.8	19.7	18.1	16.7	15.8	15.3	15.3
50	1.14	1.03	0.90	0.11	0.00	0.82	5.92	11.4	15.9	15.5	13.6	10.7	8.18	5.78	3.84	3.47	3.61	4.00	3.77
55	0.98	0.90	0.81	0.71	0.67	0.74	1.11	1.57	2.06	2.42	2.76	3.08	3.42	3.73	3.99	4.17	4.28	4.33	4.31
60	0.82	0.79	0.74	0.71	0.69	0.67	0.58	0.56	0.70	1.31	2.04	2.79	3.28	3.69	4.01	4.27	4.44	4.52	4.49
65	0.68	0.67	0.65	0.64	0.62	0.59	0.48	0.40	0.42	0.67	1.05	1.55	2.25	2.96	3.60	3.95	4.16	4.24	4.24
70	0.50	0.50	0.48	0.46	0.45	0.42	0.38	0.34	0.32	0.26	0.30	0.51	1.26	2.11	2.92	3.30	3.51	3.58	3.59
75	0.31	0.31	0.30	0.30	0.29	0.28	0.25	0.22	0.19	0.11	0.11	0.25	0.85	1.54	2.21	2.56	2.77	2.84	2.83
80	0.17	0.16	0.16	0.16	0.17	0.17	0.16	0.14	0.12	0.13	0.14	0.15	0.09	0.08	0.18	0.69	1.20	1.56	1.25
85	0.07	0.07	0.07	0.08	0.09	0.09	0.07	0.05	0.04	0.04	0.06	0.07	0.07	0.07	0.08	0.11	0.15	0.17	0.13
90	0.04	0.05	0.00	0.00	0.03	0.03	0.00	0.00	0.09	0.56	1.03	1.36	1.01	0.55	0.19	0.59	1.07	1.45	1.06
95	0.07	0.10	0.12	0.11	0.09	0.07	0.06	0.06	0.07	0.08	0.10	0.10	0.08	0.06	0.04	0.08	0.13	0.17	0.15
100	0.14	0.16	0.18	0.15	0.12	0.10	0.13	0.17	0.20	0.17	0.13	0.10	0.09	0.14	0.28	0.77	1.25	1.56	1.20
105	0.34	0.34	0.32	0.28	0.23	0.19	0.20	0.23	0.25	0.13	0.08	0.19	0.86	1.62	2.35	2.67	2.83	2.84	2.77
110	0.58	0.58	0.56	0.50	0.44	0.38	0.35	0.34	0.35	0.28	0.31	0.53	1.34	2.25	3.10	3.45	3.59	3.58	3.51
115	0.80	0.81	0.78	0.72	0.65	0.57	0.46	0.41	0.47	0.83	1.32	1.90	2.58	3.25	3.82	4.10	4.24	4.24	4.16
120	0.96	0.95	0.92	0.85	0.78	0.73	0.69	0.75	0.97	1.61	2.35	3.09	3.54	3.90	4.16	4.37	4.49	4.52	4.44
125	1.05	1.04	1.01	0.93	0.91	1.01	1.47	2.02	2.58	2.94	3.24	3.50	3.73	3.93	4.09	4.22	4.31	4.33	4.28
130	1.24	1.18	1.19	0.49	0.58	2.14	9.38	16.8	22.4	19.5	14.5	8.79	6.40	4.84	3.97	3.69	3.77	4.00	3.61
135	31.7	54.7	73.5	70.7	61.9	50.6	45.5	41.1	37.1	32.7	28.5	24.7	21.6	19.1	17.2	15.9	15.3	15.3	15.8
140	104	97.0	85.4	78.2	71.0	64.1	59.1	54.8	50.8	46.6	42.6	39.0	36.0	33.4	31.4	30.2	29.5	29.3	29.7
145	109	103	95.8	90.2	84.7	79.3	74.0	69.0	64.4	60.4	56.8	53.6	50.7	48.3	46.4	45.2	44.5	44.4	44.7
150	115	110	105	99.8	95.0	90.4	85.9	81.5	77.5	74.0	70.8	68.0	65.4	63.2	61.5	60.4	59.9	59.8	60.1
155	121	117	113	109	105	101	96.9	93.2	89.9	86.9	84.3	81.9	79.7	77.8	76.4	75.5	75.0	74.9	75.1
160	127	123	120	116	113	110	107	104	101	99.0	96.9	95.1	93.3	91.8	90.6	89.8	89.5	89.4	89.6
165	131	128	126	123	121	119	116	114	112	110	109	107	106	105	104	103	103	103	103
170	134	133	131	129	128	126	124	123	122	120	119	119	118	117	116	116	116	116	116
175	137	136	135	134	133	132	132	131	130	130	129	129	128	128	128	128	128	128	128
180	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	Shielding Angle:

Table--3

UNIT: cd

C(DEC) γ (DEC)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138
5	128	128	128	128	129	129	130	130	131	132	132	133	134	135	136	137	138	138	139
10	116	116	117	118	119	119	120	122	123	124	126	128	129	131	133	134	136	138	140
15	103	104	105	106	107	109	110	112	114	116	119	121	123	126	128	131	134	136	139
20	89.8	90.6	91.8	93.3	95.1	96.9	99.0	101	104	107	110	113	116	120	123	127	130	134	137
25	75.5	76.4	77.8	79.7	81.9	84.3	86.9	89.9	93.2	96.9	101	105	109	113	117	121	126	130	134
30	60.4	61.5	63.2	65.4	68.0	70.8	74.0	77.5	81.5	85.9	90.4	95.0	99.8	105	110	115	120	126	131
35	45.2	46.4	48.3	50.7	53.6	56.8	60.4	64.4	69.0	74.0	79.3	84.7	90.2	95.8	103	109	113	115	112
40	30.2	31.4	33.4	36.0	39.0	42.6	46.6	50.8	54.8	59.1	64.1	71.0	78.2	85.4	97.0	104	102	70.6	34.4
45	15.9	17.2	19.1	21.6	24.7	28.5	32.7	37.1	41.1	45.5	50.6	61.9	70.7	73.5	54.7	31.7	9.49	2.88	0.67
50	3.69	3.97	4.84	6.40	8.79	14.5	19.5	22.4	16.8	9.38	2.14	0.58	0.49	1.19	1.18	1.24	1.30	1.23	1.12
55	4.22	4.09	3.93	3.73	3.50	3.24	2.94	2.58	2.02	1.47	1.01	0.91	0.93	1.01	1.04	1.05	1.05	1.00	0.91
60	4.37	4.16	3.90	3.54	3.09	2.35	1.61	0.97	0.75	0.69	0.73	0.78	0.85	0.92	0.95	0.96	0.92	0.83	0.70
65	4.10	3.82	3.25	2.58	1.90	1.32	0.83	0.47	0.41	0.46	0.57	0.65	0.72	0.78	0.81	0.80	0.76	0.64	0.50
70	3.45	3.10	2.25	1.34	0.53	0.31	0.28	0.35	0.34	0.35	0.38	0.44	0.50	0.56	0.58	0.58	0.54	0.43	0.30
75	2.67	2.35	1.62	0.86	0.19	0.08	0.13	0.25	0.23	0.20	0.19	0.23	0.28	0.32	0.34	0.34	0.32	0.24	0.15
80	0.77	0.28	0.14	0.09	0.10	0.13	0.17	0.20	0.17	0.13	0.10	0.12	0.15	0.18	0.16	0.14	0.11	0.09	0.06
85	0.08	0.04	0.06	0.08	0.10	0.10	0.08	0.07	0.06	0.06	0.07	0.09	0.11	0.12	0.10	0.07	0.04	0.03	0.03
90	0.58	0.16	0.45	0.82	1.12	0.83	0.42	0.02	0.00	0.00	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
95	0.11	0.08	0.07	0.07	0.07	0.06	0.04	0.04	0.05	0.07	0.09	0.09	0.08	0.07	0.07	0.07	0.06	0.04	0.02
100	0.69	0.18	0.08	0.09	0.15	0.14	0.13	0.12	0.14	0.16	0.17	0.17	0.16	0.16	0.16	0.17	0.16	0.12	0.06
105	2.56	2.21	1.54	0.85	0.25	0.11	0.11	0.19	0.22	0.25	0.28	0.29	0.30	0.30	0.31	0.31	0.30	0.22	0.14
110	3.30	2.92	2.11	1.26	0.51	0.30	0.26	0.32	0.34	0.38	0.42	0.45	0.46	0.48	0.50	0.50	0.48	0.35	0.20
115	3.95	3.60	2.96	2.25	1.55	1.05	0.67	0.42	0.40	0.48	0.59	0.62	0.64	0.65	0.67	0.68	0.65	0.51	0.34
120	4.27	4.01	3.69	3.28	2.79	2.04	1.31	0.70	0.56	0.58	0.67	0.69	0.71	0.74	0.79	0.82	0.81	0.68	0.52
125	4.17	3.99	3.73	3.42	3.08	2.76	2.42	2.06	1.57	1.11	0.74	0.67	0.71	0.81	0.90	0.98	1.01	0.90	0.75
130	3.47	3.84	5.78	8.18	10.7	13.6	15.5	15.9	11.4	5.92	0.82	0.00	0.11	0.90	1.03	1.14	1.20	1.11	0.97
135	16.7	18.1	19.7	21.8	24.4	28.1	32.2	36.9	42.8	48.2	52.1	52.9	50.7	45.1	30.6	15.1	1.36	0.00	0.00
140	30.5	31.9	33.6	35.8	38.6	42.1	46.2	50.7	55.5	60.6	66.1	77.4	85.0	85.2	59.6	29.4	1.54	0.00	0.00
145	45.6	46.8	48.5	50.5	53.1	56.5	60.3	64.5	68.9	73.6	78.6	84.6	90.1	94.5	99.8	100	93.7	63.9	30.8
150	60.9	62.0	63.5	65.4	67.7	70.6	73.9	77.6	81.4	85.5	89.8	94.6	99.6	105	110	115	119	127	131
155	75.8	76.7	78.0	79.6	81.6	84.1	86.9	90.0	93.2	96.6	100	104	108	113	117	121	125	130	134
160	90.1	90.8	91.8	93.1	94.7	96.7	99.0	102	104	107	110	113	116	120	123	126	130	133	137
165	104	104	105	106	107	108	110	112	114	116	118	121	123	126	128	131	134	136	139
170	116	116	117	117	118	119	120	122	123	124	126	127	129	131	133	134	136	138	139
175	128	128	128	128	128	129	130	130	131	132	132	133	134	135	136	137	137	138	139
180	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.0318A P:6.610W PF:0.9348 Freq:49.99Hz Lamp Flux:258.045x1 lm		
NAME: SKOI-5W-930-Black	TYPE:Downlight	WEIGHT:
SPEC.:3000K	DIM.: L100*W100*H70mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L100*W100	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	138	138	138	138	138	138	138	138	138	137	138	138	138	138	138				
5	140	141	142	142	143	144	144	145	145	146	146	146	147	147	147				
10	141	143	145	146	148	149	150	151	152	153	154	154	155	155	156				
15	141	144	146	149	151	153	155	158	159	159	152	144	137	134	134				
20	140	144	147	150	154	156	156	153	145	129	91.5	51.2	15.1	0.00	0.00				
25	138	145	150	150	139	122	98.5	63.9	29.5	0.61	0.00	0.00	0.35	0.27	0.21				
30	135	143	146	138	93.9	44.9	0.79	0.00	0.00	0.32	0.25	0.20	0.17	0.14	0.12				
35	102	68.8	32.8	1.02	0.00	0.00	0.50	0.36	0.24	0.15	0.11	0.08	0.08	0.07	0.07				
40	1.24	0.00	0.00	0.69	0.55	0.43	0.32	0.22	0.13	0.06	0.03	0.03	0.04	0.04	0.05				
45	1.09	0.38	0.26	0.46	0.34	0.25	0.18	0.11	0.05	0.01	0.00	0.01	0.03	0.04	0.04				
50	0.96	0.74	0.51	0.30	0.18	0.11	0.06	0.03	0.01	0.01	0.01	0.02	0.03	0.03	0.03				
55	0.79	0.57	0.34	0.14	0.07	0.04	0.04	0.02	0.01	0.01	0.01	0.02	0.03	0.03	0.03				
60	0.55	0.35	0.17	0.02	0.00	0.01	0.04	0.03	0.02	0.01	0.01	0.01	0.02	0.02	0.03				
65	0.35	0.21	0.09	0.01	0.00	0.01	0.03	0.02	0.01	0.00	0.00	0.01	0.02	0.03	0.03				
70	0.18	0.10	0.04	0.01	0.00	0.01	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.02	0.02				
75	0.07	0.03	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.02				
80	0.04	0.02	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01				
85	0.03	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.01				
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01				
100	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01				
105	0.06	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01				
110	0.07	0.04	0.04	0.05	0.03	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01				
115	0.19	0.13	0.10	0.08	0.05	0.02	0.00	0.00	0.01	0.02	0.02	0.01	0.01	0.01	0.02				
120	0.35	0.24	0.16	0.09	0.05	0.02	0.01	0.01	0.02	0.04	0.04	0.05	0.05	0.04	0.04				
125	0.57	0.41	0.27	0.15	0.08	0.04	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04				
130	0.79	0.61	0.43	0.27	0.16	0.08	0.03	0.02	0.03	0.05	0.04	0.03	0.03	0.03	0.03				
135	0.91	0.74	0.57	0.41	0.28	0.17	0.09	0.06	0.06	0.06	0.05	0.04	0.03	0.03	0.03				
140	0.99	0.84	0.70	0.56	0.42	0.30	0.19	0.15	0.13	0.12	0.08	0.05	0.03	0.02	0.04				
145	1.13	0.00	0.00	0.76	0.61	0.47	0.34	0.28	0.23	0.19	0.15	0.10	0.07	0.06	0.07				
150	127	99.3	66.0	33.5	17.1	6.51	0.56	0.00	0.00	0.33	0.27	0.22	0.18	0.14	0.12				
155	138	147	152	149	120	83.7	47.6	26.3	10.7	0.54	0.00	0.00	0.29	0.23	0.19				
160	140	144	147	150	153	154	151	140	124	103	71.7	40.3	13.0	0.34	0.00				
165	141	144	146	148	151	153	155	157	158	160	160	159	157	152	145				
170	141	143	144	146	147	149	150	151	153	154	154	155	155	156	156				
175	140	141	142	142	143	144	144	145	146	146	147	147	147	147	148				
180	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138				

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

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.000m [K=1.0000]
Remarks: