

LED Tracklight FOCUS S-28W-930-25D



Light Output Ratio:	100.0%	
Luminaire Power:	27.69 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

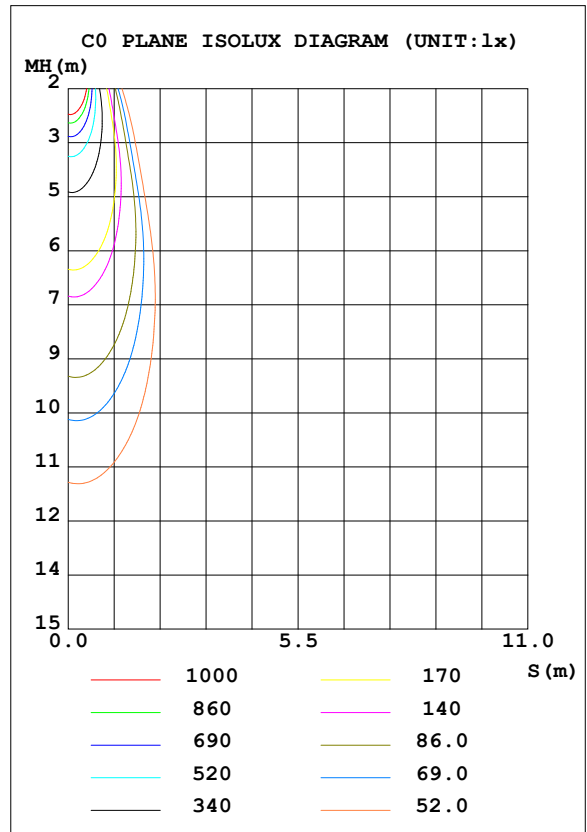
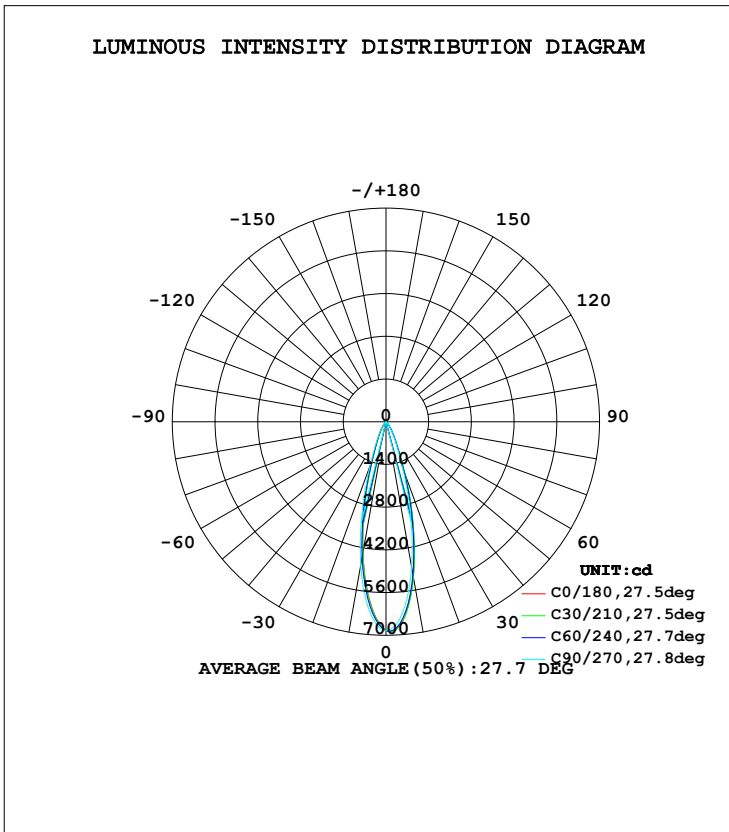
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-26

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.1332A P:27.69W PF:0.9423 Lamp Flux:1966.41x1 lm		
NAME: FOCUS S-28W-930-25D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	CITIZEN-3000K	Imax (cd)	6890	S/MH (C0/180)	0.43
NOMINAL POWER (W)	28.0	LOR (%)	100.0	S/MH (C90/270)	0.46
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	1966.4	η UP, DN (C0-180)	0.0, 50.1
NOMINAL FLUX (lm)	1966.41	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	1.00



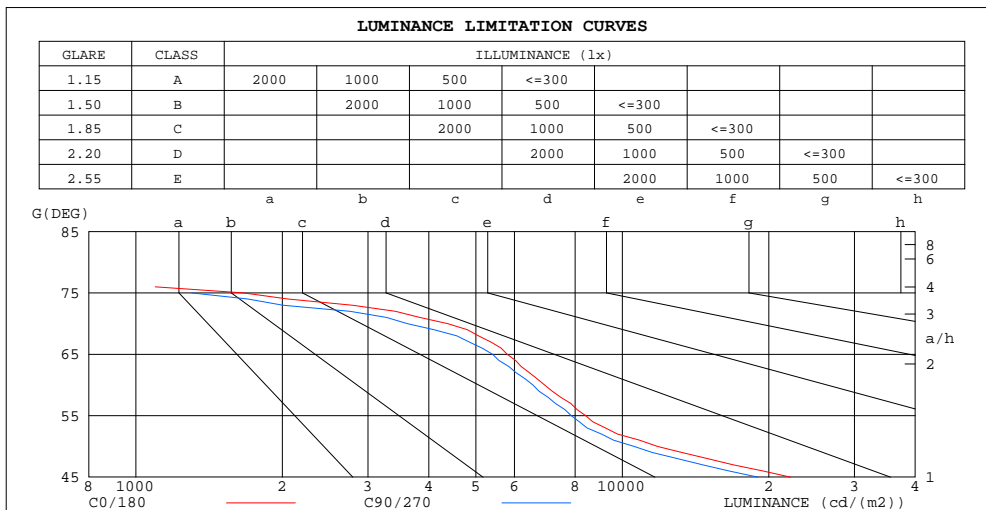
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Meng Yongjian
Test Date: 2017-07-26

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity: 52%
Test Distance: 5.850m [K=1.0000]
Remarks:

**ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	5172	5192	4848	4351	4356	4383	4775	5255	0- 10	548.5	548.5	27.9,27.9
20	1820	1820	1565	1257	1241	1261	1503	1872	10- 20	823.5	1372	69.8,69.8
30	482.2	484.1	435.6	361.5	359.1	365.4	423.7	493.6	20- 30	376.0	1748	88.9,88.9
40	133.4	133.8	112.9	85.31	86.14	90.10	109.3	135.9	30- 40	149.1	1897	96.5,96.5
50	29.19	28.85	26.13	21.21	22.02	22.40	25.41	29.47	40- 50	42.71	1940	98.6,98.6
60	13.31	13.20	12.59	11.03	11.61	12.08	13.00	13.75	50- 60	15.78	1956	99.5,99.5
70	5.755	5.558	4.754	3.742	4.233	4.591	5.227	6.373	60- 70	8.753	1964	99.9,99.9
80	0.3656	0.3910	0.4050	0.3385	0.2969	0.2823	0.2882	0.3479	70- 80	1.846	1966	100,100
90	0.0984	0.0962	0.1093	0.1028	0.0612	0.0612	0.0612	0.0743	80- 90	0.2008	1966	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



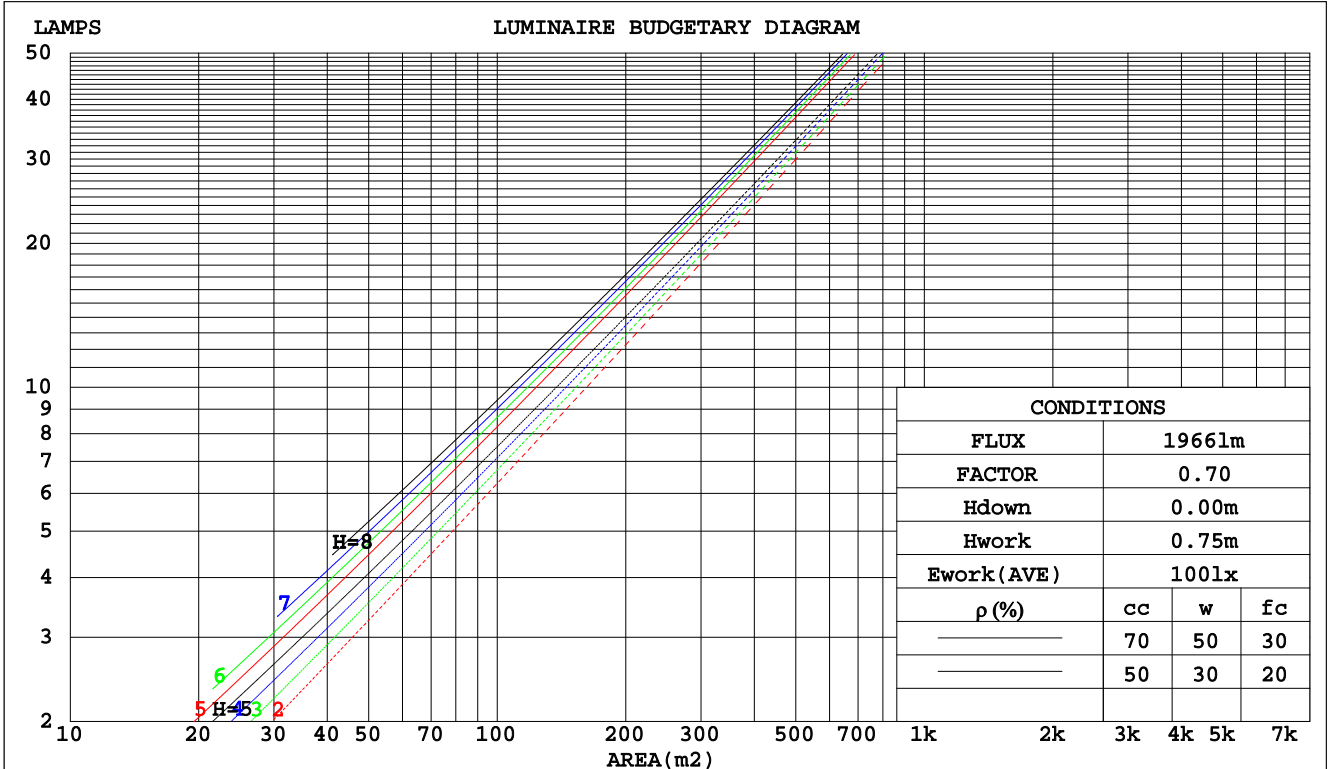
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-07-26

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.6V I:0.1332A P:27.69W PF:0.9423 Lamp Flux:1966.4lx1 lm		
NAME: FOCUS S-28W-930-25D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.05	1.02	.99	1.01	.99	.97	.99	.97	.95	.96	.94	.93	.92
3.0	1.01	.97	.94	.90	.96	.93	.97	.94	.92	.95	.92	.90	.93	.91	.89	.88
4.0	.96	.92	.89	.95	.91	.88	.93	.90	.87	.91	.89	.86	.90	.87	.85	.84
5.0	.92	.88	.84	.91	.87	.84	.90	.86	.83	.88	.85	.82	.87	.84	.82	.81
6.0	.88	.84	.80	.88	.83	.80	.86	.83	.80	.85	.82	.79	.84	.81	.79	.77
7.0	.85	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.76	.81	.78	.76	.75
8.0	.82	.77	.74	.81	.77	.74	.80	.76	.74	.79	.76	.73	.79	.75	.73	.72
9.0	.79	.74	.71	.79	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.71	.70
10.0	.76	.72	.69	.76	.72	.69	.75	.71	.69	.75	.71	.68	.74	.71	.68	.67



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Meng Yongjian
Test Date:2017-07-26

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.6V I:0.1332A P:27.69W PF:0.9423 Lamp Flux:1966.41x1 lm		
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SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.149	.085	.027	.142	.081	.026	.130	.074	.024	.118	.068	.022	.108	.062	.020	
2.0	.139	.076	.023	.134	.074	.023	.124	.069	.021	.114	.064	.020	.105	.060	.019	
3.0	.131	.070	.021	.126	.068	.020	.118	.064	.019	.110	.060	.018	.102	.057	.018	
4.0	.123	.064	.019	.119	.063	.018	.112	.059	.018	.105	.057	.017	.099	.054	.016	
5.0	.117	.059	.017	.113	.058	.017	.107	.056	.016	.101	.053	.016	.096	.051	.015	
6.0	.111	.055	.016	.108	.054	.016	.102	.052	.015	.097	.050	.015	.092	.049	.014	
7.0	.105	.052	.015	.103	.051	.015	.098	.050	.014	.094	.048	.014	.089	.046	.014	
8.0	.100	.049	.014	.098	.048	.014	.094	.047	.013	.090	.046	.013	.086	.044	.013	
9.0	.096	.046	.013	.094	.046	.013	.090	.045	.013	.087	.044	.012	.084	.042	.012	
10.0	.092	.044	.012	.090	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.012	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.169	.158	.147	.145	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.016	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.074	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.099	.074	.056	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.107	.076	.054	.092	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.007	
7.0	.100	.068	.046	.086	.059	.040	.059	.041	.028	.035	.024	.017	.011	.008	.006	
8.0	.094	.062	.040	.081	.053	.034	.056	.038	.024	.033	.022	.015	.011	.007	.005	
9.0	.088	.056	.034	.076	.049	.030	.053	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.084	.051	.030	.072	.045	.026	.050	.031	.019	.029	.019	.011	.009	.006	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-07-26

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.6V I:0.1332A P:27.69W PF:0.9423 Lamp Flux:1966.4lx1 lm		
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SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

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	16.5	17.3	16.7	17.4	17.6	16.1	16.8	16.3	17.0	17.1
3H	16.5	17.2	16.8	17.4	17.6	16.1	16.8	16.3	17.0	17.2
4H	16.5	17.1	16.7	17.3	17.5	16.0	16.7	16.3	16.9	17.1
6H	16.4	17.0	16.7	17.2	17.5	15.9	16.5	16.2	16.8	17.0
8H	16.3	16.9	16.6	17.2	17.4	15.9	16.5	16.2	16.7	17.0
12H	16.3	16.9	16.6	17.1	17.4	15.9	16.4	16.2	16.7	16.9
4H 2H	16.4	17.0	16.7	17.3	17.5	16.0	16.6	16.2	16.8	17.1
3H	16.4	17.0	16.7	17.2	17.5	16.0	16.6	16.3	16.8	17.1
4H	16.3	16.9	16.7	17.2	17.5	15.9	16.4	16.3	16.7	17.0
6H	16.2	16.7	16.6	17.0	17.4	15.8	16.3	16.2	16.6	16.9
8H	16.2	16.6	16.6	17.0	17.3	15.8	16.2	16.2	16.5	16.9
12H	16.1	16.5	16.5	16.9	17.3	15.7	16.1	16.1	16.5	16.9
8H 4H	16.2	16.6	16.6	17.0	17.3	15.8	16.2	16.2	16.6	16.9
6H	16.1	16.5	16.5	16.8	17.3	15.7	16.0	16.1	16.4	16.8
8H	16.0	16.4	16.5	16.8	17.2	15.6	15.9	16.1	16.3	16.8
12H	16.0	16.3	16.5	16.7	17.2	15.6	15.8	16.0	16.3	16.7
12H 4H	16.2	16.5	16.6	16.9	17.3	15.7	16.1	16.1	16.5	16.9
6H	16.0	16.4	16.5	16.8	17.2	15.6	15.9	16.1	16.3	16.8
8H	16.0	16.3	16.5	16.7	17.2	15.6	15.8	16.0	16.3	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 2.8 / - 5.4					+ 2.5 / - 5.3				
1.5H	+ 4.8 / - 4.8					+ 4.5 / - 4.3				
2.0H	+ 4.2 / - 2.2					+ 3.6 / - 2.0				

CIE Pub.117 Corrected 1966 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.3)

C Range: 0 - 360DEG
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 Operators:Meng Yongjian
 Test Date:2017-07-26

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.6V I:0.1332A P:27.69W PF:0.9423 Lamp Flux:1966.41x1 lm		
NAME: FOCUS S-28W-930-25D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

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	89	83	80	89	83	80	88	83	80	76
0.80	97	91	88	96	91	87	95	90	87	84
1.00	101	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	106	111	108	105	107	105	103	97
4.00	114	112	110	112	110	108	109	107	105	98
5.00	115	113	112	113	112	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:52%
Test Distance:5.850m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

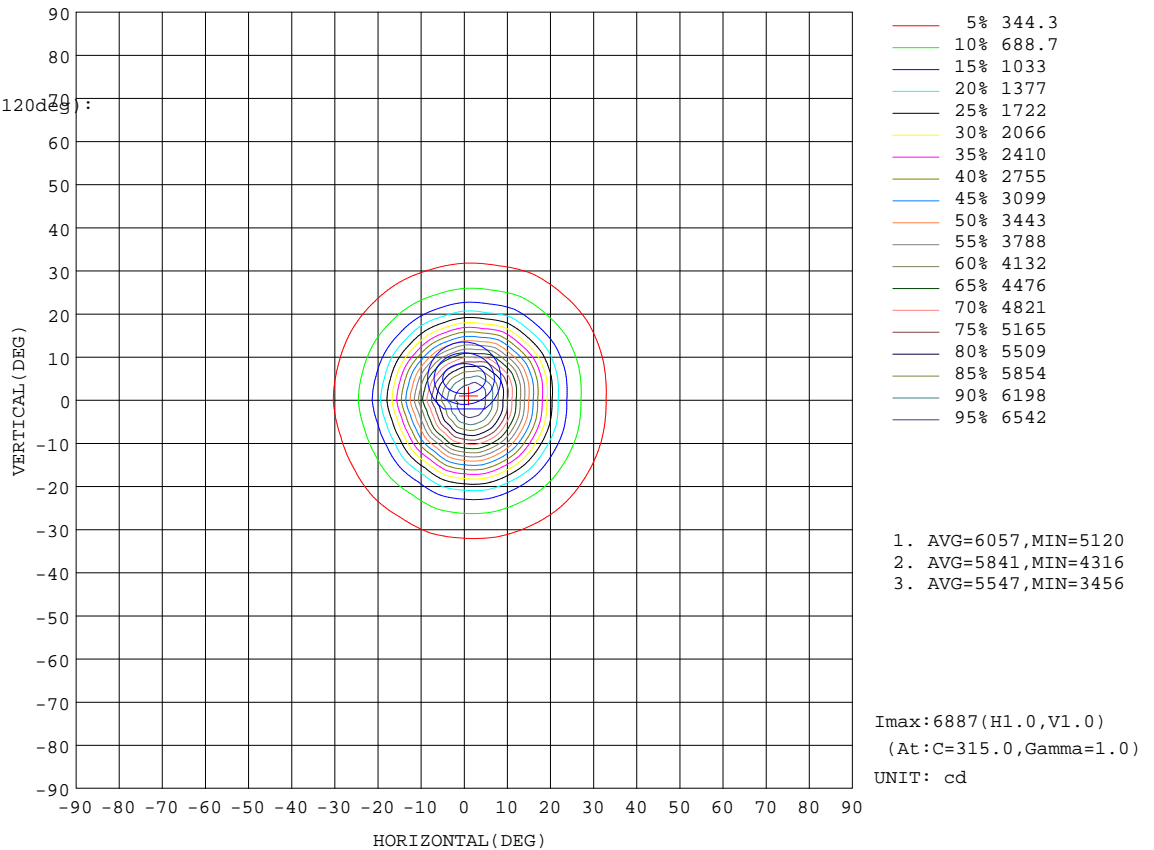
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SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

Conical surface Flux(90deg):

1925.2 lm
%lum = 97.9%
%lamp = 97.9%

Conical surface Flux(120deg):

1955.6 lm
%lum = 99.5%
%lamp = 99.5%



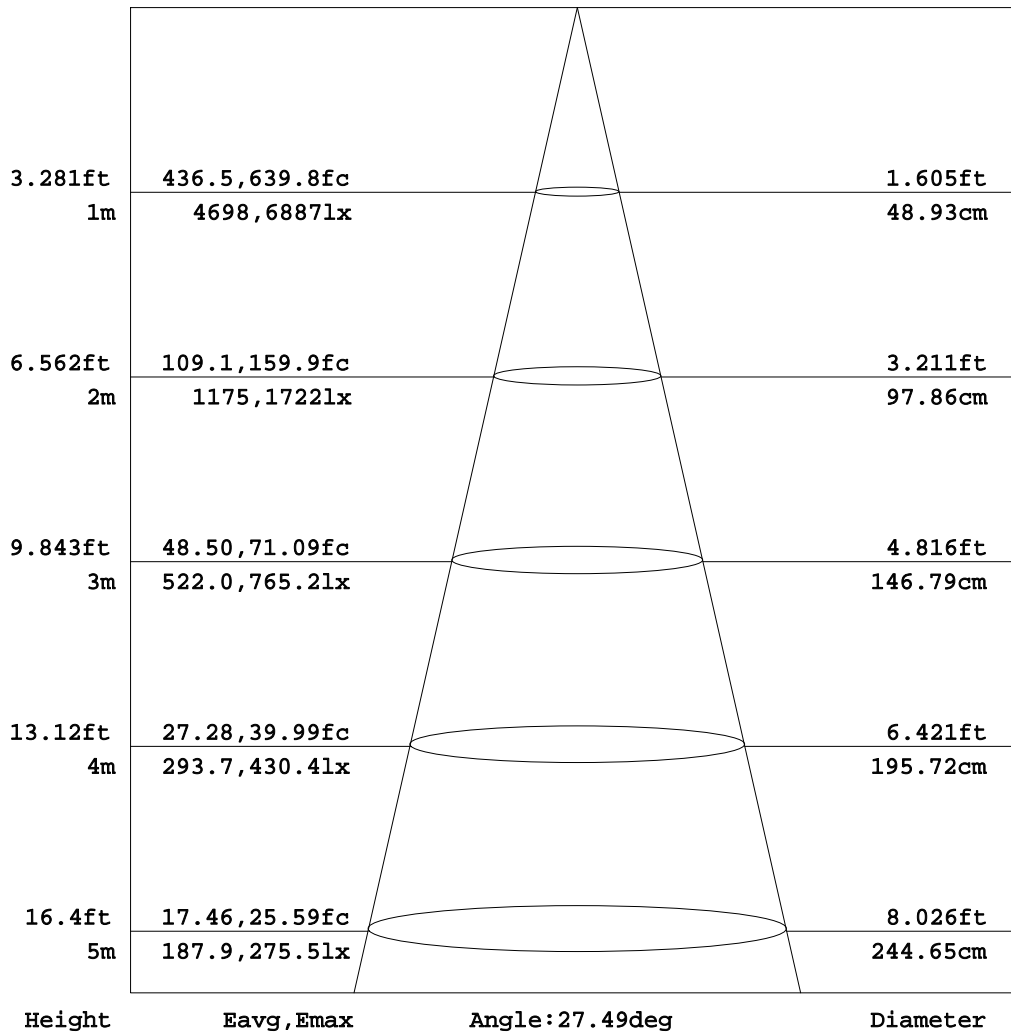
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AAI Figure

Test:U:220.6V I:0.1332A P:27.69W PF:0.9423 Lamp Flux:1966.4lx1 lm		
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SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

Flux out:917.6 lm



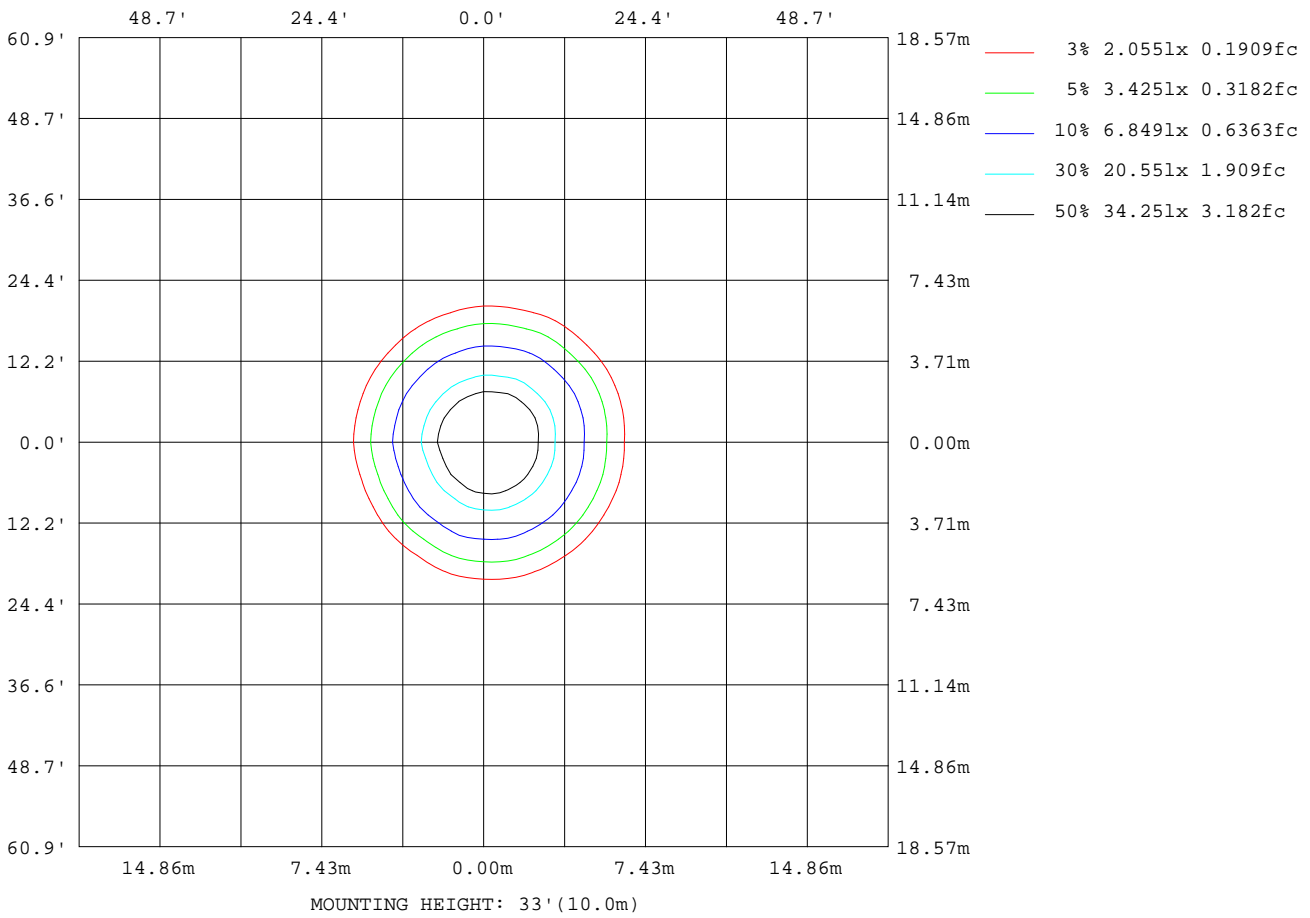
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

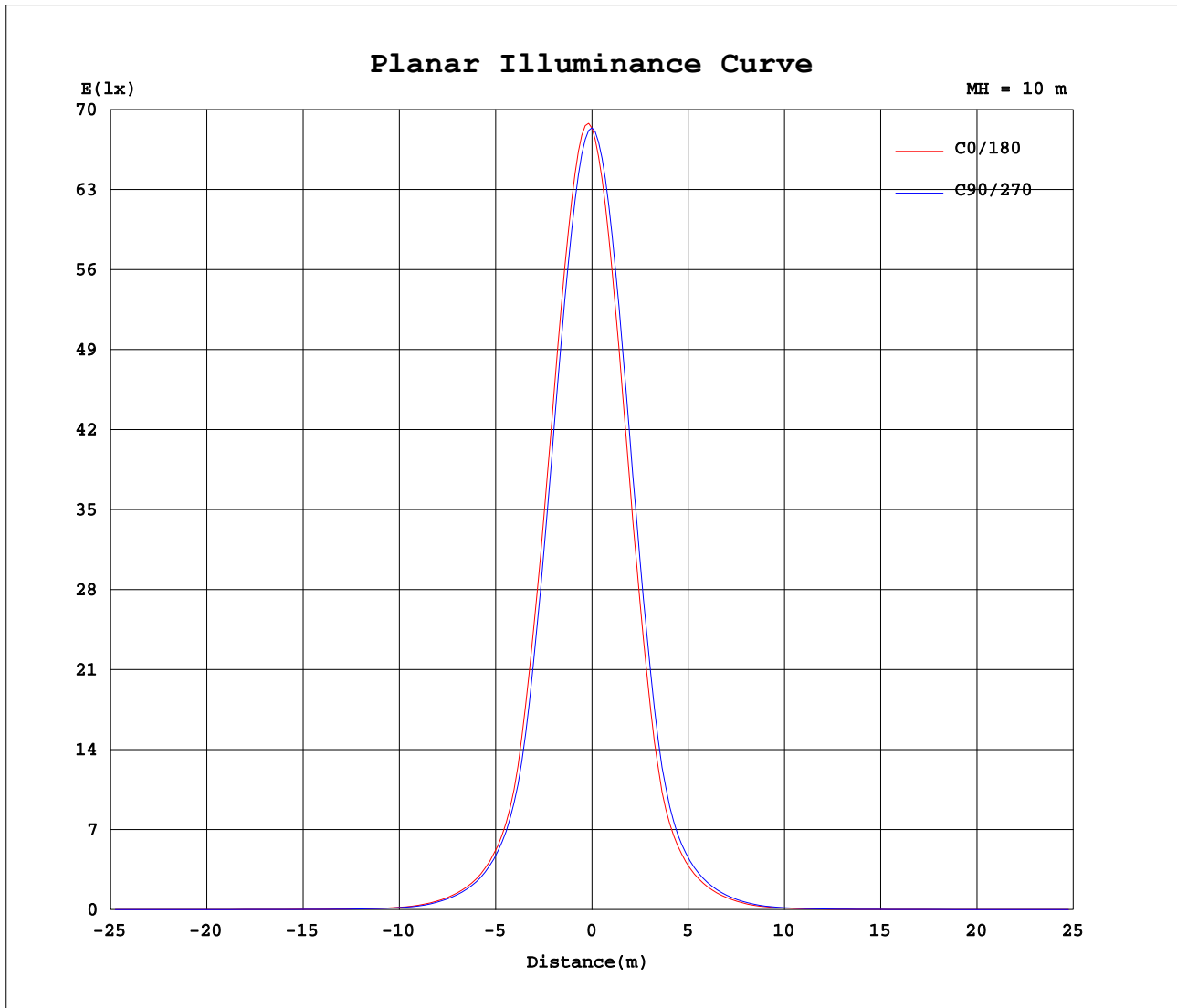
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.1332A P:27.69W PF:0.9423 Lamp Flux:1966.41x1 lm		
NAME: FOCUS S-28W-930-25D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: \varnothing 70mm*H138mm	
MFR.: NEKO LIGHTING AG		

Table--1

UNIT: cd

C (DEG) γ (DEG)		0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0		6838	6835	6846	6838	6844	6838	6841	6842	6838	6840	6790	6744	6838	6835	6846	6838	6844	6838	6841
5		6515	6552	6526	6519	6445	6399	6277	6207	5993	5957	5806	5771	5952	5921	5970	5979	6066	6108	6232
10		5172	5232	5191	5192	5091	5030	4848	4740	4414	4351	4155	4125	4356	4303	4371	4383	4515	4581	4775
15		3415	3476	3429	3431	3325	3272	3085	2983	2671	2614	2436	2423	2624	2574	2632	2645	2767	2832	3016
20		1820	1866	1825	1820	1736	1694	1565	1490	1294	1257	1155	1140	1241	1213	1247	1261	1359	1377	1503
25		879	899	882	881	851	840	797	766	676	656	611	605	654	638	655	662	694	713	767
30		482	492	483	484	470	464	436	420	372	362	336	333	359	353	361	365	384	396	424
35		266	271	265	265	257	254	238	228	198	192	177	176	192	189	193	196	207	214	230
40		133	138	133	134	127	125	113	106	88.8	85.3	77.0	76.3	86.1	84.9	88.2	90.1	96.3	100	109
45		60.3	60.4	60.1	59.3	57.7	56.0	51.6	48.6	41.4	40.1	37.0	37.2	40.7	40.4	41.8	42.4	45.0	46.2	50.6
50		29.2	29.5	28.9	28.8	28.3	27.9	26.1	24.8	21.7	21.2	20.5	20.7	22.0	22.0	22.3	22.4	23.2	23.7	25.4
55		18.5	18.5	18.0	18.1	18.1	17.9	17.3	16.8	15.4	15.1	14.7	14.9	16.0	16.0	16.0	16.2	16.6	16.8	17.3
60		13.3	13.3	13.1	13.2	13.1	13.0	12.6	12.2	11.2	11.0	10.7	10.9	11.6	11.7	11.9	12.1	12.5	12.6	13.0
65		9.42	9.42	9.31	9.33	9.20	9.08	8.79	8.48	7.65	7.52	7.25	7.47	8.06	8.15	8.45	8.61	8.97	9.17	9.50
70		5.76	5.82	5.58	5.56	5.30	5.21	4.75	4.48	3.83	3.74	3.43	3.62	4.23	4.30	4.46	4.59	4.87	4.98	5.23
75		1.66	1.70	1.65	1.69	1.61	1.57	1.30	1.13	0.61	0.58	0.55	0.53	0.55	0.63	0.71	0.65	0.57	0.58	0.91
80		0.37	0.36	0.39	0.39	0.41	0.40	0.40	0.38	0.36	0.34	0.32	0.30	0.30	0.30	0.27	0.28	0.27	0.29	0.29
85		0.20	0.19	0.22	0.21	0.23	0.21	0.22	0.19	0.19	0.16	0.17	0.14	0.13	0.15	0.12	0.14	0.12	0.15	0.14
90		0.10	0.09	0.10	0.10	0.11	0.09	0.11	0.09	0.10	0.10	0.10	0.10	0.06	0.06	0.06	0.06	0.06	0.06	0.06

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Temperature:25.3DEG	Humidity:52%
Operators:Meng Yongjian	Test Distance:5.850m [K=1.0000]
Test Date:2017-07-26	Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.1332A P:27.69W PF:0.9423 Lamp Flux:1966.41x1 lm		
NAME: FOCUS S-28W-930-25D	TYPE:Downlight	SERIAL No.:
SPEC.:3000K	DIM.: φ70mm*H138mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345												
0	6842	6838	6840	6790	6744												
5	6301	6514	6551	6630	6573												
10	4876	5218	5255	5396	5329												
15	3112	3452	3491	3651	3593												
20	1573	1834	1872	2011	1973												
25	797	893	901	954	938												
30	439	491	494	520	511												
35	239	269	271	286	283												
40	115	134	136	146	145												
45	52.9	59.8	61.6	65.3	64.6												
50	26.2	28.8	29.5	31.7	31.5												
55	17.4	18.2	18.5	19.3	19.2												
60	13.1	13.6	13.7	14.3	13.9												
65	9.46	9.91	9.92	10.3	10.0												
70	5.45	6.34	6.37	6.66	6.44												
75	1.14	1.84	1.91	2.07	1.96												
80	0.31	0.33	0.35	0.35	0.37												
85	0.16	0.16	0.18	0.17	0.20												
90	0.06	0.06	0.07	0.07	0.09												

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Meng Yongjian
 Test Date:2017-07-26

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:52%
 Test Distance:5.850m [K=1.0000]
 Remarks:

Photometric Data Table [cd]

24.0	1025	1035	1096	1074
27.0	704.1	711.3	747.8	735.1
30.0	491.0	493.6	519.9	511.5
33.0	342.7	346.1	363.8	359.1
36.0	236.3	238.8	253.0	249.8
39.0	155.6	158.4	169.6	167.6
42.0	95.34	97.91	105.8	105.1
45.0	59.85	61.60	65.30	64.62
48.0	38.37	39.22	42.17	41.86
51.0	25.80	26.40	28.06	27.93
54.0	19.16	19.60	20.82	20.72
57.0	16.23	16.48	17.14	17.04
60.0	13.60	13.75	14.26	13.92
63.0	11.29	11.34	11.73	11.47
66.0	9.312	9.293	9.529	9.318
69.0	7.212	7.190	7.399	7.188
72.0	4.571	4.588	4.812	4.576
75.0	1.835	1.906	2.067	1.960
78.0	0.4149	0.4313	0.4455	0.4655
81.0	0.2882	0.3064	0.3079	0.3305
84.0	0.1899	0.2080	0.2008	0.2277
87.0	0.1113	0.1401	0.1265	0.1489
90.0	0.0612	0.0743	0.0722	0.0875

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Meng Yongjian
 Test Date: 2017-07-26

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity: 52%
 Test Distance: 5.850m [K=1.0000]
 Remarks: