

LED Tracklight FURE M-28W-930-45



Light Output Ratio:	100.0%	
Luminaire Power:	27.97 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

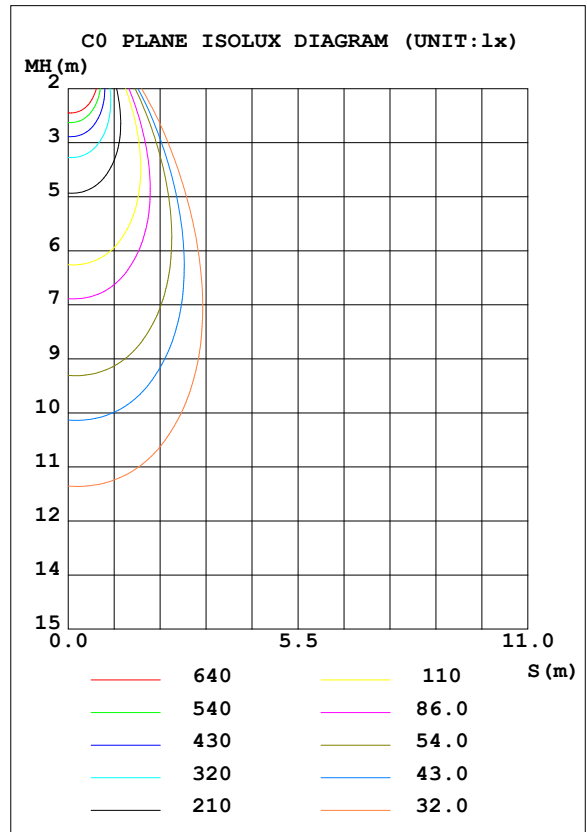
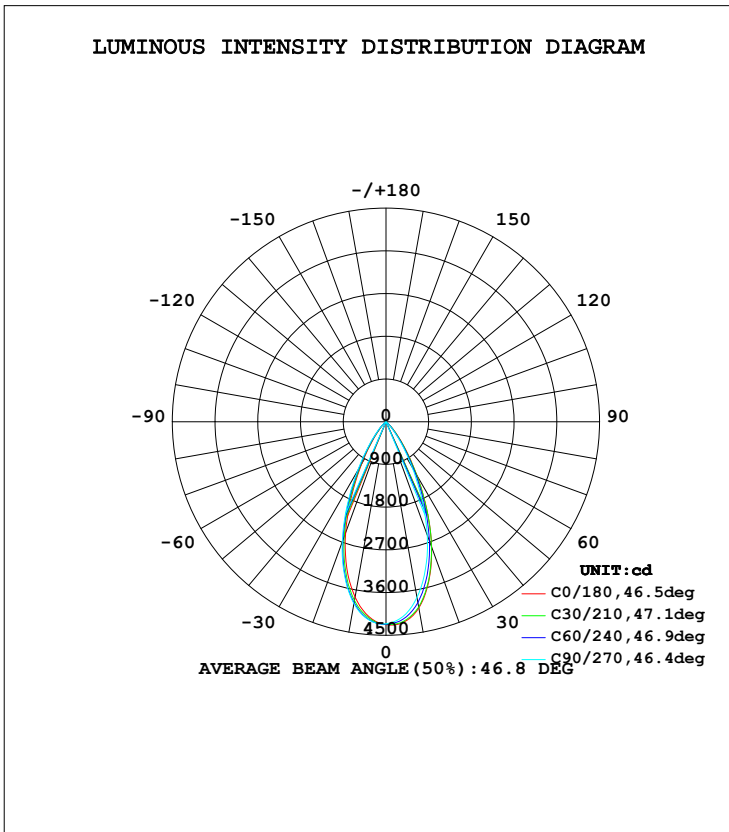
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Meng Yongjian  
Test Date: 2017-05-18

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:220.7V I:0.1315A P:27.97W PF:0.9638 Lamp Flux:2693.63x1 lm		
NAME: FURE M-28W-930-45	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.29 lm/W			
MODEL	CITIZEN-3000K	I <sub>max</sub> (cd)	4285	S/MH (C0/180)	0.71
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	0.74
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2693.6	η UP, DN (C0-180)	0.0, 49.4
NOMINAL FLUX (lm)	2693.63	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 50.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.75



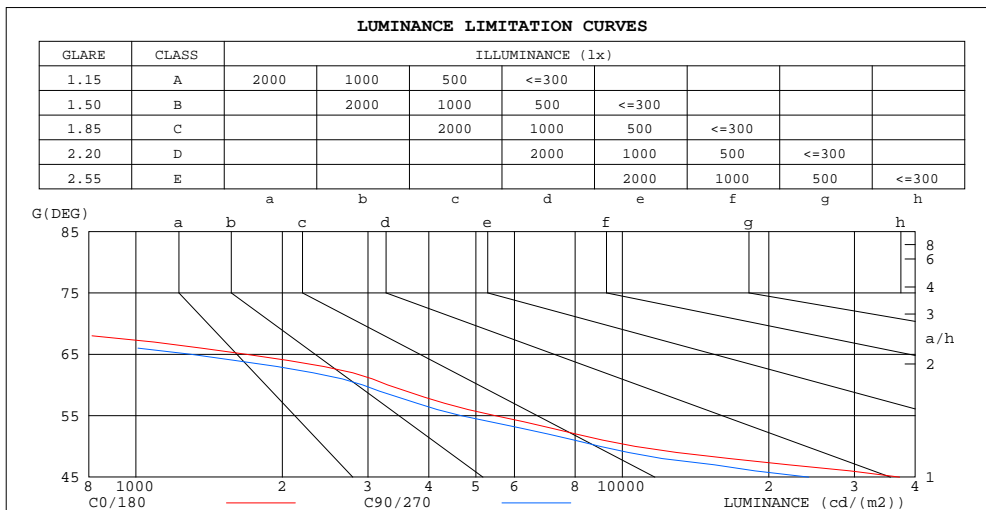
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Remarks:

**ZONAL FLUX DIAGRAM  
AND LUMINANCE LIMITATION CURVES**

**ZONAL FLUX DIAGRAM:**

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\%lum, lamp$
10	3985	3931	3760	3709	3751	3844	3892	3912	0- 10	387.6	387.6	14.4,14.4
20	2812	2768	2545	2458	2487	2609	2696	2736	10- 20	914.7	1302	48.3,48.3
30	1302	1259	1098	1034	1026	1110	1209	1260	20- 30	850.1	2152	79.9,79.9
40	369.5	332.2	263.4	251.1	243.4	285.1	339.5	372.9	30- 40	410.6	2563	95.2,95.2
50	43.42	38.92	36.82	35.44	32.60	33.33	41.33	48.01	40- 50	107.9	2671	99.2,99.2
60	10.47	9.906	9.305	8.967	8.719	8.990	10.13	10.64	50- 60	17.92	2689	99.8,99.8
70	0.7291	0.6476	0.4830	0.4106	0.3951	0.4105	0.5641	0.7519	60- 70	4.211	2693	100,100
80	0.2122	0.1966	0.2166	0.1770	0.1463	0.1553	0.1442	0.1859	70- 80	0.2992	2693	100,100
90	0.1377	0.1377	0.1421	0.1421	0.0918	0.0875	0.0896	0.0918	80- 90	0.1495	2694	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		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	296	296
80	192	196
75	185	177
70	335	222
65	1682	1294
60	3293	2927
55	5478	4663
50	10624	9008
45	37146	24166

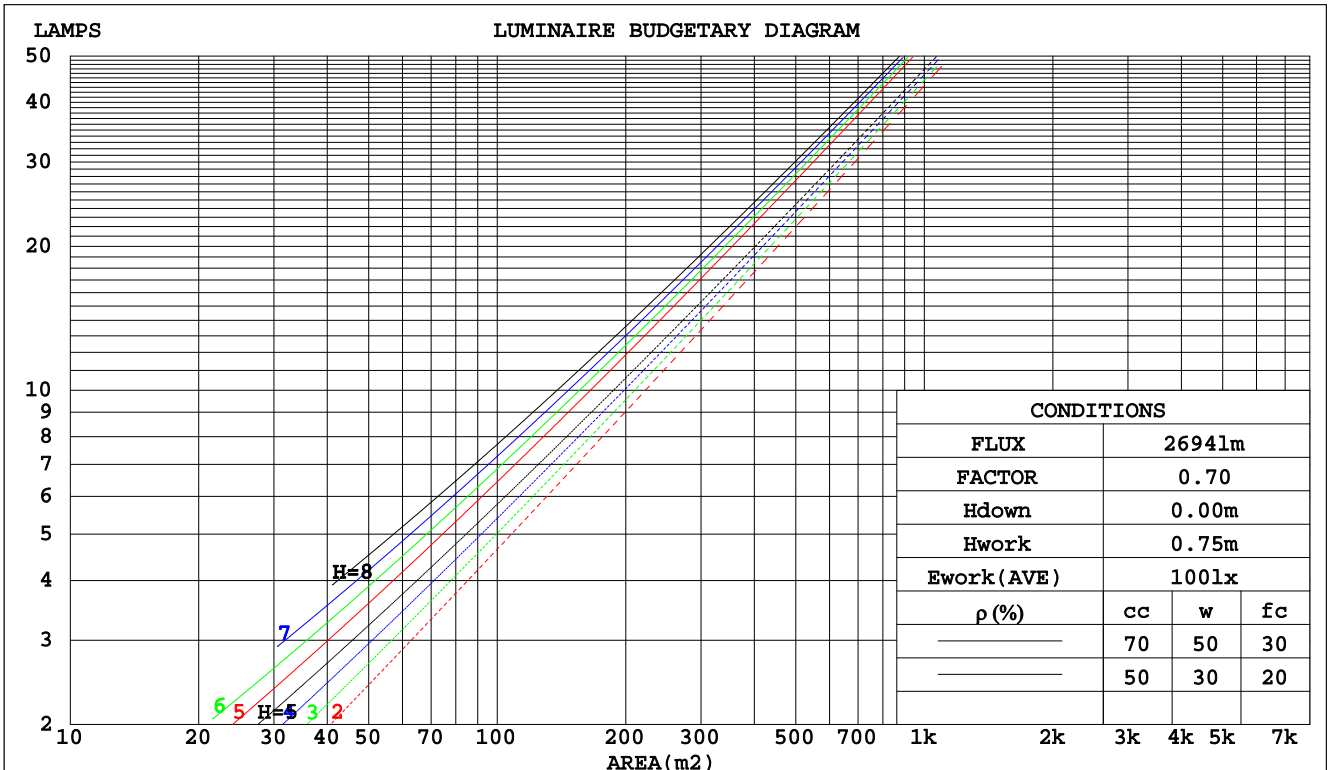
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Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.288  
Humidity:52%  
Test Distance:5.850m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.7V I:0.1315A P:27.97W PF:0.9638 Lamp Flux:2693.63x1 lm		
NAME: FURE M-28W-930-45	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
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	1.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.97	1.03	.99	.96	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.93	.90	.97	.92	.89	.94	.90	.88	.92	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.81	.85	.82	.80	.79
5.0	.87	.82	.78	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.82	.76	.73	.80	.76	.72	.79	.75	.72	.77	.74	.71	.70
7.0	.78	.72	.69	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.67	.66
8.0	.74	.69	.65	.73	.68	.65	.72	.68	.64	.71	.67	.64	.70	.67	.64	.63
9.0	.70	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.61	.59
10.0	.67	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.64	.60	.58	.56



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WEC AND CCEC

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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	.167	.095	.030	.160	.091	.029	.147	.085	.027	.136	.078	.025	.125	.073	.023	
2.0	.159	.087	.027	.153	.084	.026	.143	.079	.025	.133	.075	.023	.124	.070	.022	
3.0	.151	.080	.024	.146	.078	.024	.137	.074	.023	.129	.071	.022	.121	.067	.021	
4.0	.143	.075	.022	.139	.073	.022	.132	.070	.021	.125	.067	.020	.118	.064	.020	
5.0	.137	.070	.020	.133	.068	.020	.127	.066	.019	.120	.063	.019	.115	.061	.018	
6.0	.130	.065	.019	.127	.064	.019	.122	.062	.018	.116	.060	.018	.111	.058	.017	
7.0	.125	.062	.017	.122	.061	.017	.117	.059	.017	.112	.057	.017	.108	.056	.016	
8.0	.120	.058	.016	.117	.058	.016	.113	.056	.016	.108	.055	.016	.104	.054	.016	
9.0	.115	.055	.015	.113	.055	.015	.108	.054	.015	.105	.052	.015	.101	.051	.015	
10.0	.110	.053	.015	.108	.052	.015	.105	.051	.014	.101	.050	.014	.098	.049	.014	

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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	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.154	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.045	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.043	.092	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.063	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.097	.058	.032	.083	.050	.028	.058	.035	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.017	.032	.019	.010	.010	.006	.003	

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 Remarks:

UGR(Unified Glare Rating) Table

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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	20.2	21.1	20.4	21.2	21.4	19.1	20.0	19.3	20.2	20.3
3H	20.0	20.8	20.3	21.0	21.2	19.0	19.8	19.2	20.0	20.2
4H	19.9	20.7	20.2	20.9	21.1	18.9	19.6	19.1	19.9	20.1
6H	19.8	20.6	20.1	20.8	21.0	18.8	19.5	19.1	19.7	20.0
8H	19.8	20.5	20.1	20.7	21.0	18.7	19.4	19.0	19.7	19.9
12H	19.8	20.4	20.1	20.7	21.0	18.7	19.4	19.0	19.6	19.9
4H 2H	19.9	20.7	20.2	20.9	21.1	18.9	19.6	19.2	19.9	20.1
3H	19.8	20.4	20.1	20.7	21.0	18.7	19.4	19.0	19.6	19.9
4H	19.7	20.3	20.0	20.6	20.9	18.6	19.2	19.0	19.5	19.8
6H	19.6	20.1	19.9	20.4	20.8	18.5	19.0	18.9	19.4	19.7
8H	19.5	20.0	19.9	20.4	20.7	18.5	19.0	18.9	19.3	19.7
12H	19.5	19.9	19.9	20.3	20.7	18.4	18.9	18.8	19.2	19.6
8H 4H	19.5	20.0	19.9	20.4	20.7	18.5	19.0	18.9	19.3	19.7
6H	19.4	19.8	19.8	20.2	20.6	18.4	18.8	18.8	19.2	19.6
8H	19.4	19.7	19.8	20.1	20.6	18.3	18.7	18.8	19.1	19.5
12H	19.3	19.6	19.8	20.0	20.5	18.2	18.5	18.7	19.0	19.5
12H 4H	19.5	19.9	19.9	20.3	20.7	18.4	18.9	18.8	19.2	19.6
6H	19.4	19.7	19.8	20.1	20.6	18.3	18.7	18.8	19.1	19.5
8H	19.3	19.6	19.8	20.0	20.5	18.2	18.5	18.7	19.0	19.5
Variations with the observer position at spacings:										
S = 1.0H	+ 3.4 / -14.3					+ 3.0 / -13.6				
1.5H	+ 5.7 / -12.0					+ 5.3 / -10.8				
2.0H	+ 7.8 / - 9.7					+ 6.7 / - 8.4				

CIE Pub.117 Corrected 2694 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.4)

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 Remarks:

**UTILIZATION FACTORS TABLE**

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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	89	82	79	88	82	79	87	82	78	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	98	95	101	97	95	91
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	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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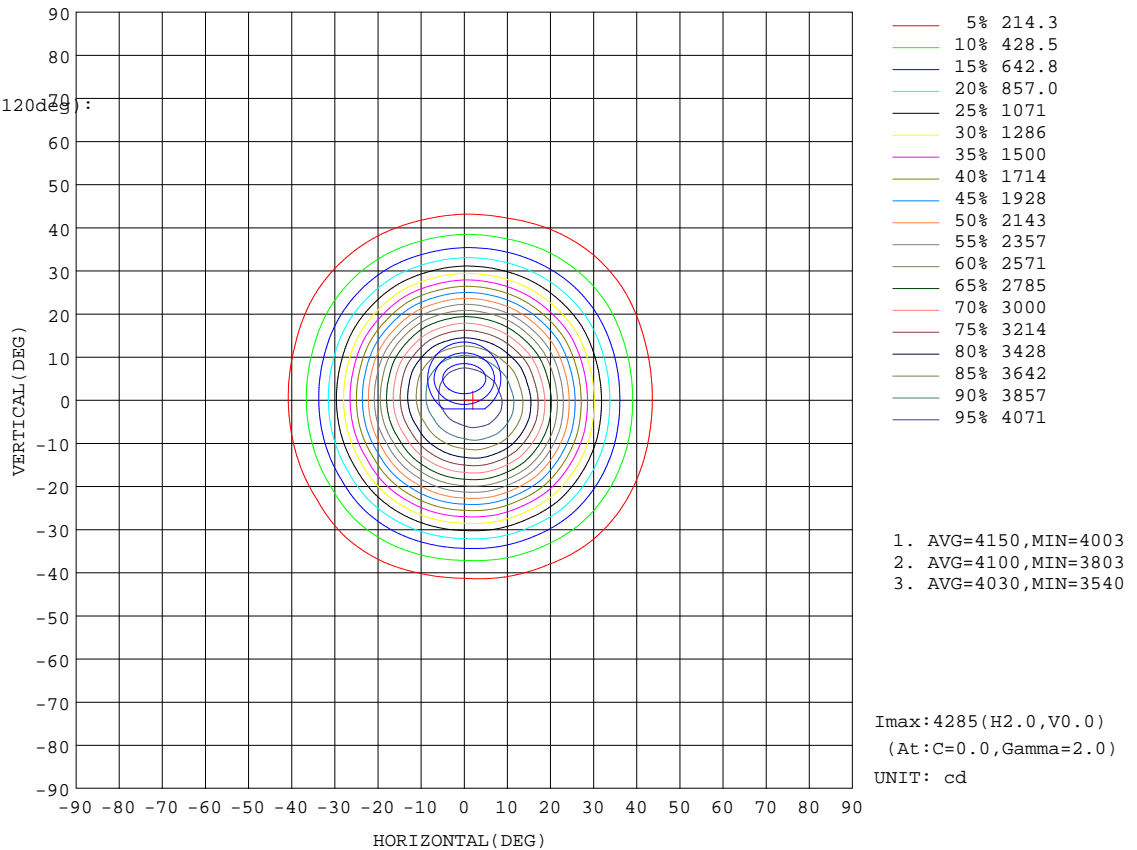
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**ISOCANDELA DIAGRAM**

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Conical surface Flux(90deg):  
2641.3 lm  
%lum = 98.1%  
%lamp = 98.1%

Conical surface Flux(120deg):  
2689 lm  
%lum = 99.8%  
%lamp = 99.8%



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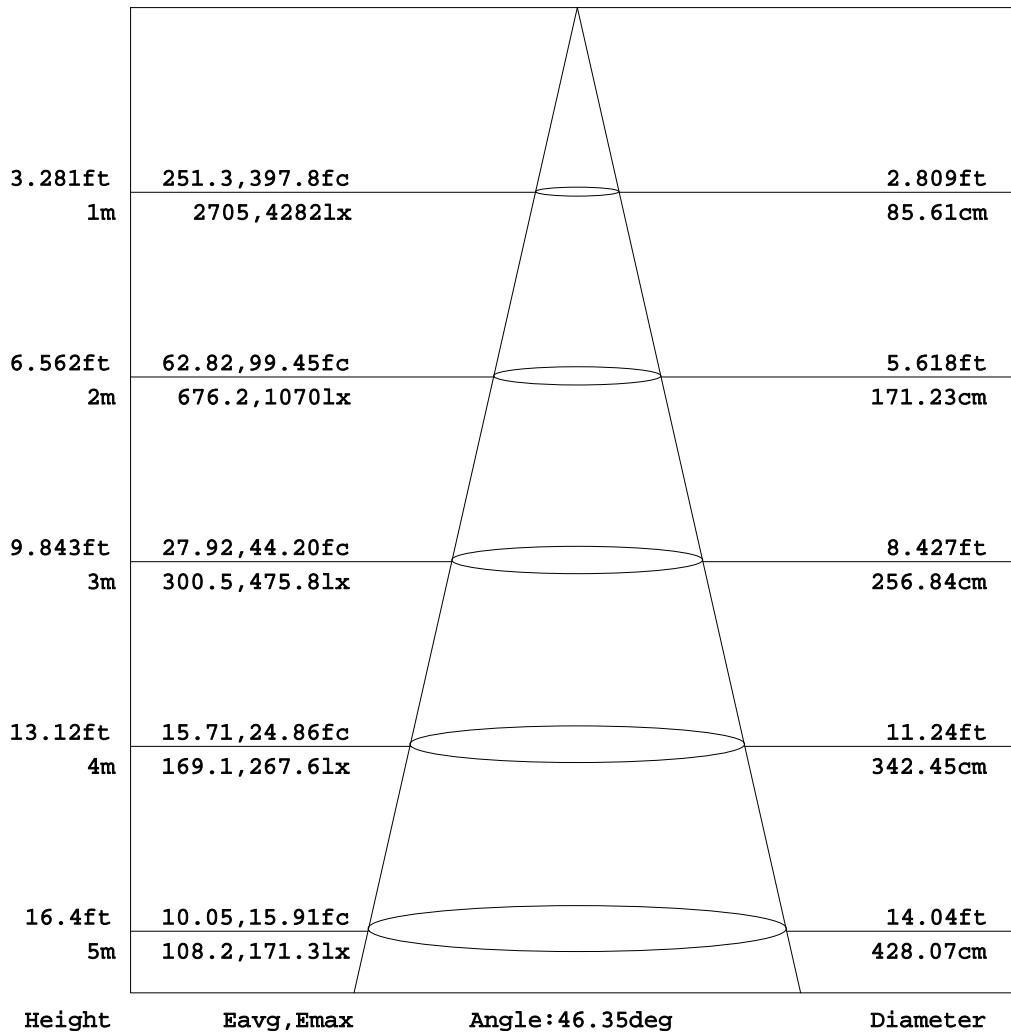
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**AAI Figure**

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Flux out:1684 lm



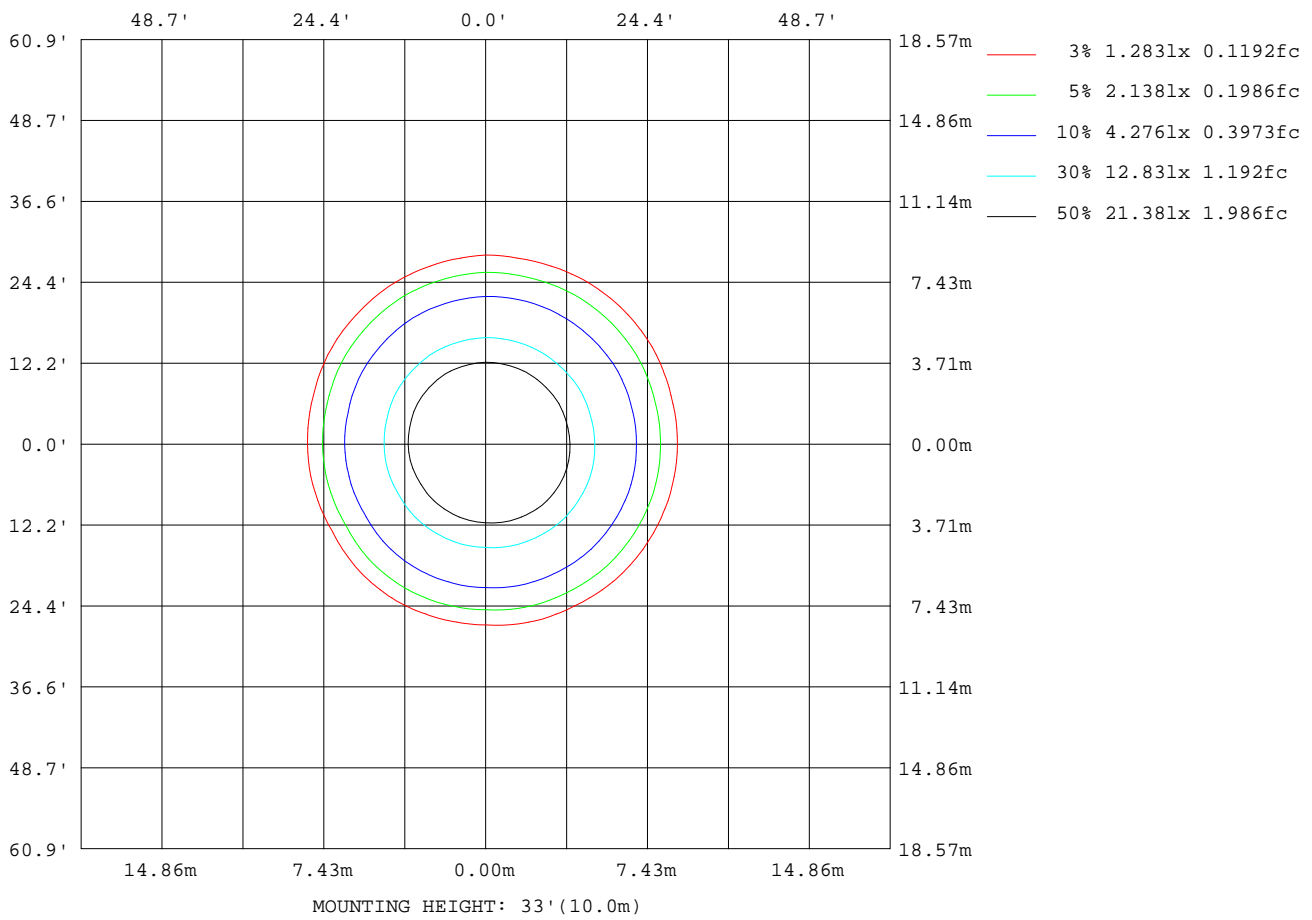
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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**ISOLUX DIAGRAM**

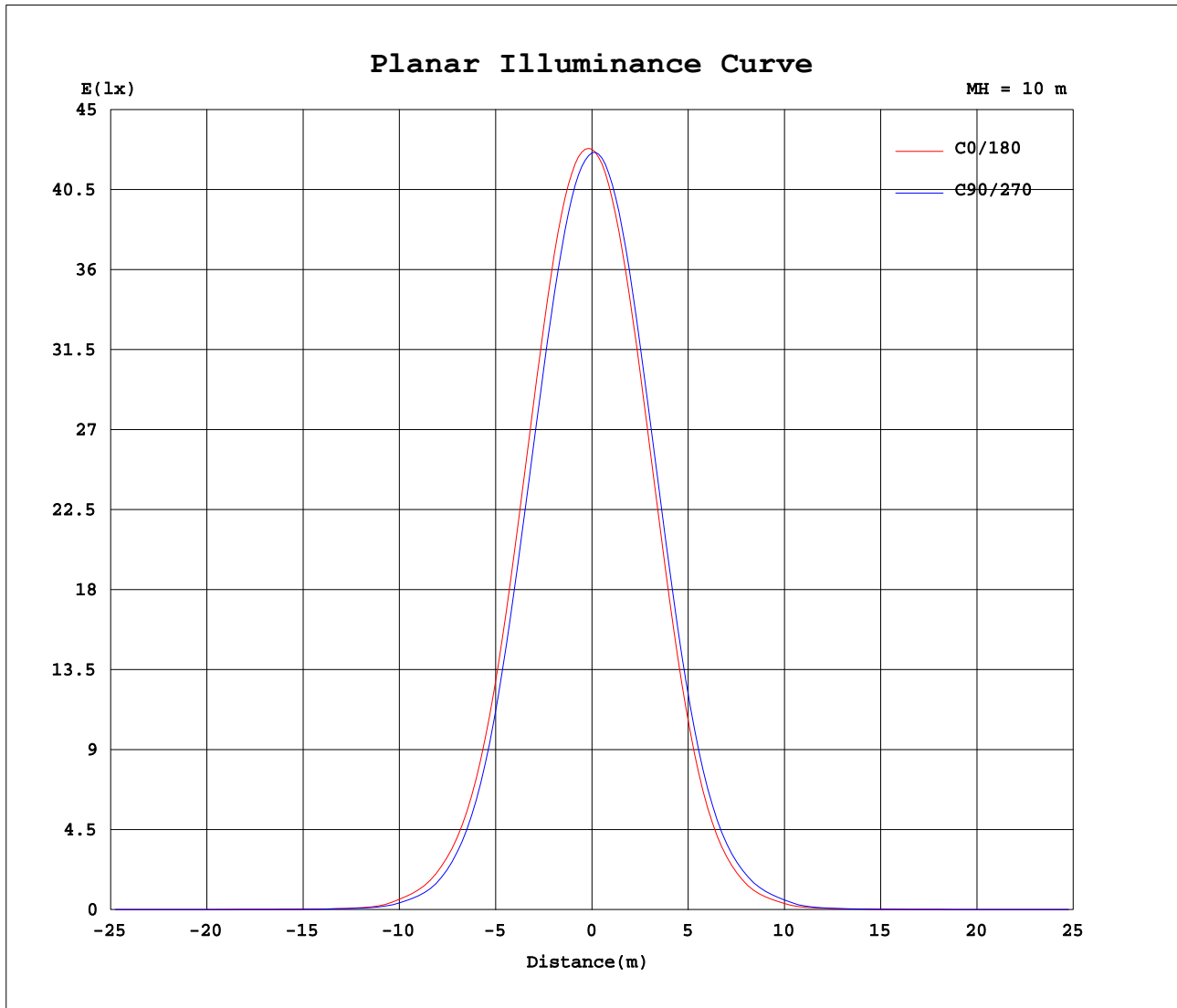
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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.1315A P:27.97W PF:0.9638 Lamp Flux:2693.63x1 lm		
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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	4276	4272	4270	4267	4264	4263	4257	4256	4263	4265	4265	4268	4276	4272	4270	4267	4264	4263	4257
5	4242	4241	4222	4204	4173	4152	4120	4101	4100	4097	4093	4110	4122	4131	4150	4162	4181	4184	4188
10	3985	3990	3964	3931	3868	3824	3760	3734	3719	3709	3697	3728	3751	3777	3824	3844	3873	3879	3892
15	3483	3501	3466	3429	3348	3290	3216	3185	3157	3146	3128	3168	3192	3217	3276	3300	3346	3346	3367
20	2812	2832	2805	2768	2681	2621	2545	2511	2471	2458	2435	2469	2487	2511	2579	2609	2657	2665	2696
25	2039	2057	2024	1995	1916	1865	1794	1767	1732	1715	1676	1702	1713	1734	1795	1819	1879	1889	1926
30	1302	1313	1283	1259	1194	1155	1098	1075	1054	1034	999	1014	1026	1039	1088	1110	1158	1172	1209
35	736	741	716	697	651	625	589	577	574	554	518	531	540	549	581	605	634	646	673
40	369	365	350	332	302	289	263	260	262	251	228	234	243	248	270	285	305	320	339
45	167	164	155	143	127	121	109	107	104	101	89.3	92.6	98.0	99.6	111	119	131	140	155
50	43.4	42.3	39.6	38.9	37.4	37.6	36.8	37.2	35.8	35.4	33.8	32.9	32.6	32.0	32.9	33.3	35.7	37.6	41.3
55	20.0	19.7	18.8	18.5	17.7	17.6	17.0	17.0	16.3	16.2	15.7	15.5	15.7	15.6	16.2	16.4	17.5	18.0	19.3
60	10.5	10.4	10.1	9.91	9.63	9.57	9.31	9.27	9.03	8.97	8.68	8.62	8.72	8.60	8.82	8.99	9.50	9.75	10.1
65	4.52	4.51	4.20	4.09	3.82	3.72	3.48	3.42	3.21	3.17	2.95	2.97	3.07	3.00	3.21	3.29	3.62	3.78	4.13
70	0.73	0.74	0.67	0.65	0.56	0.52	0.48	0.45	0.44	0.41	0.41	0.39	0.40	0.41	0.40	0.41	0.45	0.49	0.56
75	0.30	0.28	0.30	0.28	0.30	0.28	0.29	0.27	0.28	0.25	0.26	0.23	0.22	0.23	0.21	0.23	0.21	0.24	0.23
80	0.21	0.19	0.21	0.20	0.22	0.20	0.22	0.19	0.20	0.18	0.20	0.17	0.15	0.16	0.14	0.16	0.13	0.16	0.14
85	0.16	0.14	0.16	0.14	0.17	0.14	0.16	0.14	0.16	0.14	0.16	0.14	0.10	0.11	0.10	0.11	0.09	0.12	0.10
90	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.09	0.09	0.09	0.09	0.09	0.09	0.09

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Meng Yongjian  
Test Date:2017-05-18

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.7V I:0.1315A P:27.97W PF:0.9638 Lamp Flux:2693.63x1 lm		
NAME: FURE M-28W-930-45	TYPE:Tracklight	SERIAL No.:
SPEC.:3000K	DIM.: φ90mm*H220mm	
MFR.: NEKO LIGHTING AG		

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345														
0	4256	4263	4265	4265	4268														
5	4190	4199	4208	4224	4221														
10	3889	3897	3912	3948	3950														
15	3359	3383	3399	3441	3438														
20	2699	2721	2736	2779	2782														
25	1938	1964	1979	2025	2015														
30	1219	1245	1260	1298	1292														
35	686	703	718	741	732														
40	340	363	373	380	370														
45	157	172	177	178	171														
50	43.5	47.5	48.0	48.7	46.3														
55	20.1	21.7	21.7	22.1	21.1														
60	10.3	10.6	10.6	10.9	10.7														
65	4.25	4.64	4.65	4.86	4.73														
70	0.60	0.74	0.75	0.82	0.78														
75	0.26	0.25	0.28	0.27	0.30														
80	0.17	0.16	0.19	0.17	0.20														
85	0.12	0.10	0.13	0.11	0.14														
90	0.09	0.09	0.09	0.09	0.09														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Meng Yongjian  
 Test Date:2017-05-18  
 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	2121	2134	2181	2170
27.0	1663	1680	1724	1717
30.0	1245	1260	1298	1292
33.0	892.8	909.3	938.7	930.2
36.0	619.9	638.7	653.2	653.5
39.0	419.4	430.3	439.4	430.8
42.0	269.7	279.2	282.7	273.1
45.0	171.6	177.0	178.3	170.9
48.0	77.80	79.21	80.48	76.16
51.0	39.68	39.95	40.36	38.35
54.0	25.41	25.56	25.87	24.72
57.0	15.76	15.84	16.10	15.60
60.0	10.62	10.64	10.86	10.71
63.0	7.160	7.174	7.415	7.306
66.0	3.601	3.630	3.776	3.687
69.0	1.269	1.293	1.412	1.339
72.0	0.3624	0.3945	0.3973	0.4163
75.0	0.2512	0.2823	0.2687	0.2976
78.0	0.1835	0.2144	0.2010	0.2297
81.0	0.1420	0.1707	0.1551	0.1838
84.0	0.1092	0.1400	0.1201	0.1466
87.0	0.0875	0.1094	0.0940	0.1203
90.0	0.0875	0.0918	0.0896	0.0940

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Meng Yongjian  
 Test Date: 2017-05-18

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: