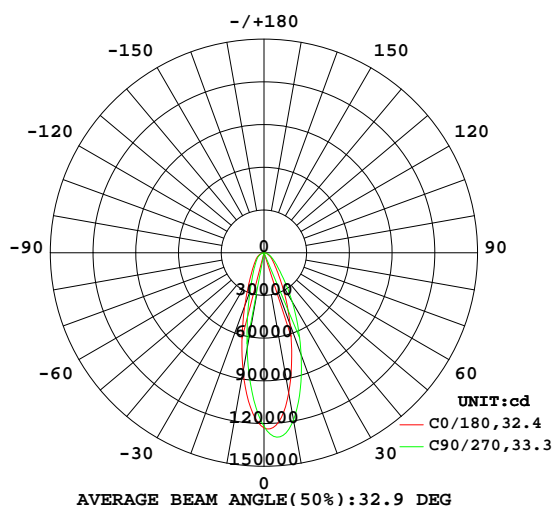


LUMINAIRE PHOTOMETRIC TEST REPORT

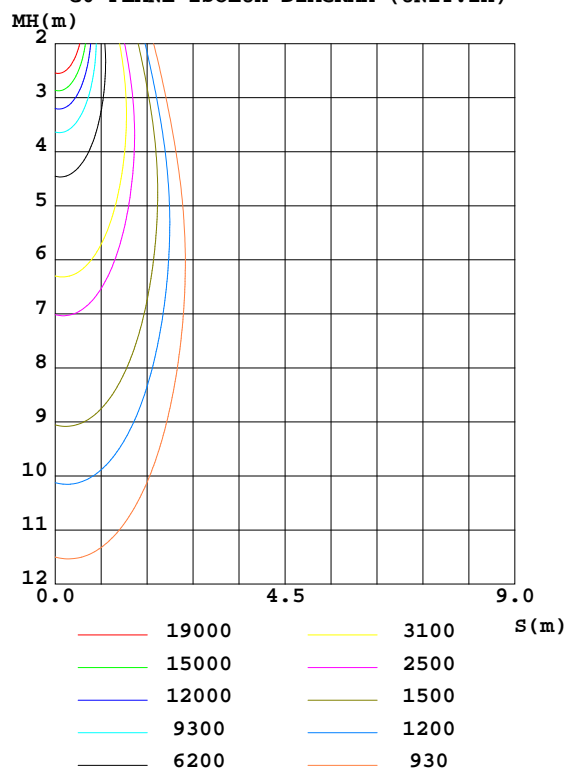
Test:U:230.26V I:2.2162A P:505.10W PF:0.9898 Freq:50.01Hz Lamp Flux:74998.6x1 lm		
NAME: LED Flood Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.: 545.0*715.1*69.7mm	SERIAL No.:N/A
MFR.:	SUR.:L612*W490mm	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.48 lm/W			
MODEL	TG04-500W-30D	I _{max} (cd)	131422	S/MH(C0/180)	0.48
NOMINAL POWER(W)	500	LOR(%)	100.0	S/MH(C90/270)	0.38
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	74999	η UP,DN(C0-180)	0.0,61.2
NOMINAL FLUX(lm)	74998.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,38.7
LAMPS INSIDE	1	η up(%)	0.1	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	η down(%)	99.9	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:1.900m [K=1.2828]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1001	1184	1192	1017	847.4	712.7	684.5	792.8	0- 10	10164	10164	13.6,13.6
20	535.9	731.1	763.0	551.2	395.2	308.2	287.2	360.2	10- 20	19096	29260	39,39
30	244.6	384.4	397.6	256.9	184.6	154.3	146.9	167.9	20- 30	15928	45188	60.3,60.3
40	122.0	180.9	180.2	131.4	109.5	94.76	89.67	98.09	30- 40	10897	56085	74.8,74.8
50	75.68	97.33	99.81	82.19	74.20	64.39	62.06	64.96	40- 50	7591	63676	84.9,84.9
60	47.50	54.83	58.60	53.48	49.52	42.25	40.49	41.11	50- 60	5566	69242	92.3,92.3
70	24.59	28.95	31.22	29.45	26.30	22.59	20.99	21.82	60- 70	3628	72871	97.2,97.2
80	7.646	10.03	10.34	9.841	7.985	6.113	5.583	6.260	70- 80	1735	74605	99.5,99.5
90	0.3562	0.0367	0.4764	0.4147	0.0261	0.0276	0.0281	0.0268	80- 90	304.0	74909	99.9,99.9
100	0.0229	0.0204	0.0190	0.0192	0.0363	0.0386	0.0375	0.0357	90-100	4.307	74914	99.9,99.9
110	0.0321	0.0289	0.0267	0.0272	0.0417	0.0470	0.0426	0.0392	100-110	3.352	74917	99.9,99.9
120	0.0521	0.0456	0.0439	0.0441	0.0711	0.0871	0.0823	0.0678	110-120	4.469	74922	99.9,99.9
130	0.1032	0.0860	0.0809	0.0848	0.1931	0.2250	0.1939	0.1737	120-130	8.483	74930	99.9,99.9
140	0.1985	0.1499	0.1307	0.1535	0.4634	0.4814	0.3359	0.3992	130-140	16.21	74946	99.9,99.9
150	0.3004	0.2350	0.1914	0.2268	0.6293	0.5915	0.3944	0.4794	140-150	21.04	74967	100,100
160	0.3421	0.2776	0.2286	0.2423	0.6345	0.5825	0.3904	0.4117	150-160	17.88	74985	100,100
170	0.3190	0.2597	0.2429	0.2134	0.5365	0.4817	0.3594	0.3304	160-170	10.40	74996	100,100
180	0.3934	0.2938	0.2638	0.2697	0.3920	0.3475	0.2868	0.2588	170-180	3.036	74999	100,100
DEG	LUMINOUS INTENSITY:×100cd									UNIT:lm		

Conical surface Flux(90deg): 60168 lm

%lum = 80.2%

%lamp = 80.2%

Conical surface Flux(120deg): 69242 lm

%lum = 92.3%

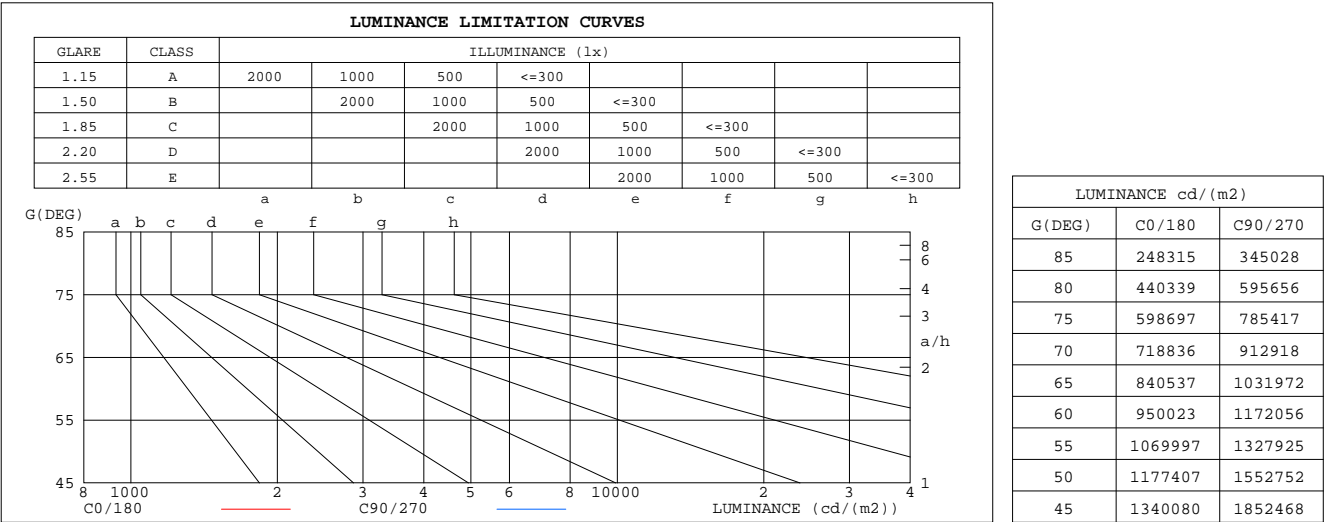
%lamp = 92.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:1.900m [K=1.2828]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.26V I:2.2162A P:505.10W PF:0.9898 Freq:50.01Hz Lamp Flux:74998.6x1 lm		
NAME: LED Flood Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.: 545.0*715.1*69.7mm	SERIAL No.:N/A
MFR.:	SUR.:L612*W490mm	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Link Chai
Test Date:2022-04-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:1.900m [K=1.2828]
Remarks:

WEC AND CCEC

Test:U:230.26V I:2.2162A P:505.10W PF:0.9898 Freq:50.01Hz Lamp Flux:74998.6x1 lm					
NAME: LED Flood Light			TYPE:LED		WEIGHT:N/A
SPEC.:N/A			DIM.: 545.0*715.1*69.7mm		SERIAL No.:N/A
MFR.:			SUR.:L612*W490mm		Shielding Angle:N/A

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	.214	.122	.039	.207	.118	.038	.194	.111	.036	.182	.105	.034	.171	.099	.032		
2.0	.204	.112	.034	.198	.109	.034	.187	.104	.032	.177	.099	.031	.168	.095	.030		
3.0	.192	.102	.031	.187	.100	.030	.177	.096	.029	.168	.092	.028	.160	.089	.027		
4.0	.180	.093	.027	.175	.092	.027	.167	.089	.026	.160	.086	.026	.152	.083	.025		
5.0	.169	.086	.025	.165	.085	.025	.158	.082	.024	.151	.080	.024	.145	.077	.023		
6.0	.159	.080	.023	.155	.078	.023	.149	.076	.022	.143	.074	.022	.137	.072	.021		
7.0	.150	.074	.021	.147	.073	.021	.141	.071	.021	.136	.070	.020	.131	.068	.020		
8.0	.141	.069	.019	.139	.068	.019	.134	.067	.019	.129	.065	.019	.125	.064	.019		
9.0	.134	.065	.018	.132	.064	.018	.127	.063	.018	.123	.062	.018	.119	.060	.017		
10.0	.127	.061	.017	.125	.060	.017	.121	.059	.017	.117	.058	.017	.114	.057	.016		

pcc	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	.191	.191	.191	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021		
1.0	.175	.158	.143	.149	.136	.123	.102	.093	.085	.059	.054	.049	.019	.017	.016		
2.0	.161	.133	.110	.138	.115	.095	.095	.079	.066	.055	.046	.039	.018	.015	.013		
3.0	.150	.115	.086	.129	.099	.075	.088	.069	.052	.051	.040	.031	.016	.013	.010		
4.0	.141	.100	.070	.121	.087	.060	.083	.060	.043	.048	.035	.025	.015	.012	.008		
5.0	.132	.089	.057	.113	.077	.050	.078	.054	.035	.045	.032	.021	.015	.010	.007		
6.0	.125	.080	.048	.107	.069	.042	.074	.048	.030	.043	.029	.018	.014	.009	.006		
7.0	.118	.073	.041	.101	.063	.036	.070	.044	.025	.041	.026	.015	.013	.009	.005		
8.0	.112	.066	.035	.096	.058	.031	.066	.040	.022	.039	.024	.013	.013	.008	.004		
9.0	.106	.061	.031	.091	.053	.027	.063	.037	.019	.037	.022	.011	.012	.007	.004		
10.0	.101	.057	.027	.087	.049	.024	.060	.035	.017	.035	.020	.010	.011	.007	.003		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:1.900m [K=1.2828]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.26V I:2.2162A P:505.10W PF:0.9898 Freq:50.01Hz Lamp Flux:74998.6x1 lm										
NAME: LED Flood Light					TYPE:LED			WEIGHT:N/A		
SPEC.:N/A					DIM.: 545.0*715.1*69.7mm			SERIAL No.:N/A		
MFR.:					SUR.:L612*W490mm			Shielding Angle:N/A		
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	35.5	36.6	35.8	36.8	37.0	36.8	37.9	37.1	38.1	38.3
3H	36.3	37.3	36.6	37.5	37.8	37.6	38.6	37.9	38.8	39.0
4H	36.6	37.5	36.9	37.8	38.0	37.9	38.8	38.2	39.1	39.3
6H	36.7	37.6	37.0	37.9	38.1	38.0	38.9	38.3	39.2	39.4
8H	36.7	37.6	37.0	37.9	38.1	38.1	38.9	38.4	39.2	39.5
12H	36.7	37.5	37.0	37.8	38.1	38.0	38.9	38.4	39.1	39.4
4H 2H	36.0	36.9	36.3	37.2	37.4	37.1	38.0	37.3	38.2	38.5
3H	36.9	37.8	37.3	38.0	38.3	38.0	38.8	38.3	39.1	39.4
4H	37.3	38.1	37.7	38.4	38.7	38.4	39.1	38.7	39.5	39.8
6H	37.5	38.2	37.9	38.5	38.9	38.6	39.3	39.0	39.6	40.0
8H	37.5	38.2	37.9	38.5	38.9	38.7	39.3	39.1	39.7	40.0
12H	37.5	38.1	37.9	38.5	38.9	38.7	39.3	39.1	39.6	40.0
8H 4H	37.5	38.1	37.9	38.4	38.8	38.5	39.1	38.9	39.4	39.8
6H	37.7	38.3	38.2	38.7	39.1	38.8	39.3	39.2	39.7	40.1
8H	37.8	38.3	38.3	38.7	39.1	38.9	39.3	39.3	39.8	40.2
12H	37.8	38.2	38.3	38.7	39.1	38.9	39.3	39.4	39.7	40.2
12H 4H	37.4	38.0	37.9	38.4	38.8	38.4	39.0	38.9	39.4	39.8
6H	37.8	38.2	38.2	38.6	39.1	38.8	39.2	39.2	39.7	40.1
8H	37.8	38.2	38.3	38.7	39.2	38.9	39.3	39.4	39.7	40.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.6					+ 0.6 / - 0.7				
1.5H	+ 0.3 / - 0.6					+ 0.7 / - 0.5				
2.0H	+ 0.5 / - 0.8					+ 1.0 / - 0.7				

CIE Pub.117, 74999 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 15.0$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:1.900m [K=1.2828]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.26V I:2.2162A P:505.10W PF:0.9898 Freq:50.01Hz Lamp Flux:74998.6x1 lm		
NAME: LED Flood Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.: 545.0*715.1*69.7mm	SERIAL No.:N/A
MFR.:	SUR.:L612*W490mm	Shielding Angle:N/A

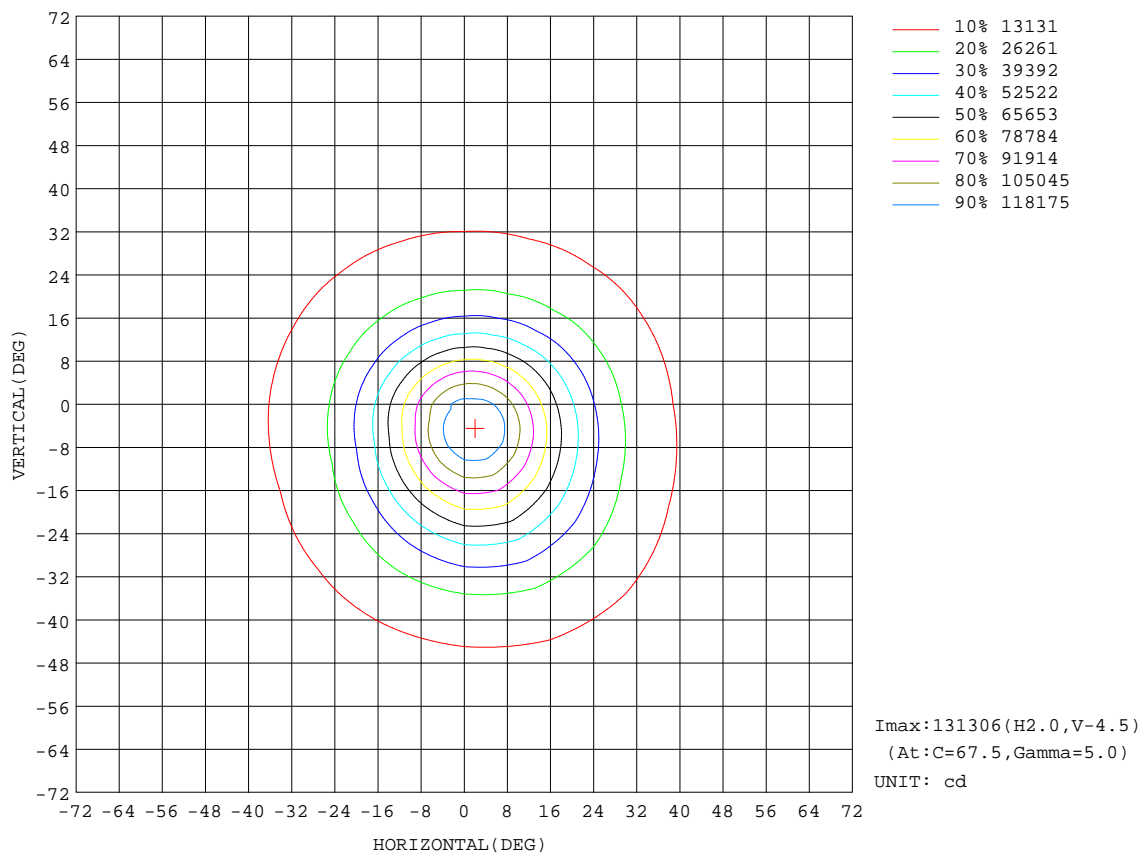
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	76	67	62	75	67	62	74	67	62	58
0.80	84	76	71	84	76	71	82	75	71	66
1.00	91	83	78	90	82	78	88	83	77	72
1.25	96	89	84	95	88	83	92	87	83	77
1.50	99	93	88	98	92	88	95	90	87	81
2.00	104	98	94	102	97	93	99	95	91	85
2.50	106	101	97	104	100	96	101	97	94	87
3.00	108	104	100	106	102	99	103	100	97	90
4.00	111	107	104	109	106	103	105	102	100	92
5.00	113	110	107	111	108	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:1.900m [K=1.2828]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.26V I:2.2162A P:505.10W PF:0.9898 Freq:50.01Hz Lamp Flux:74998.6x1 lm		
NAME: LED Flood Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.: 545.0*715.1*69.7mm	SERIAL No.:N/A
MFR.:	SUR.:L612*W490mm	Shielding Angle:N/A

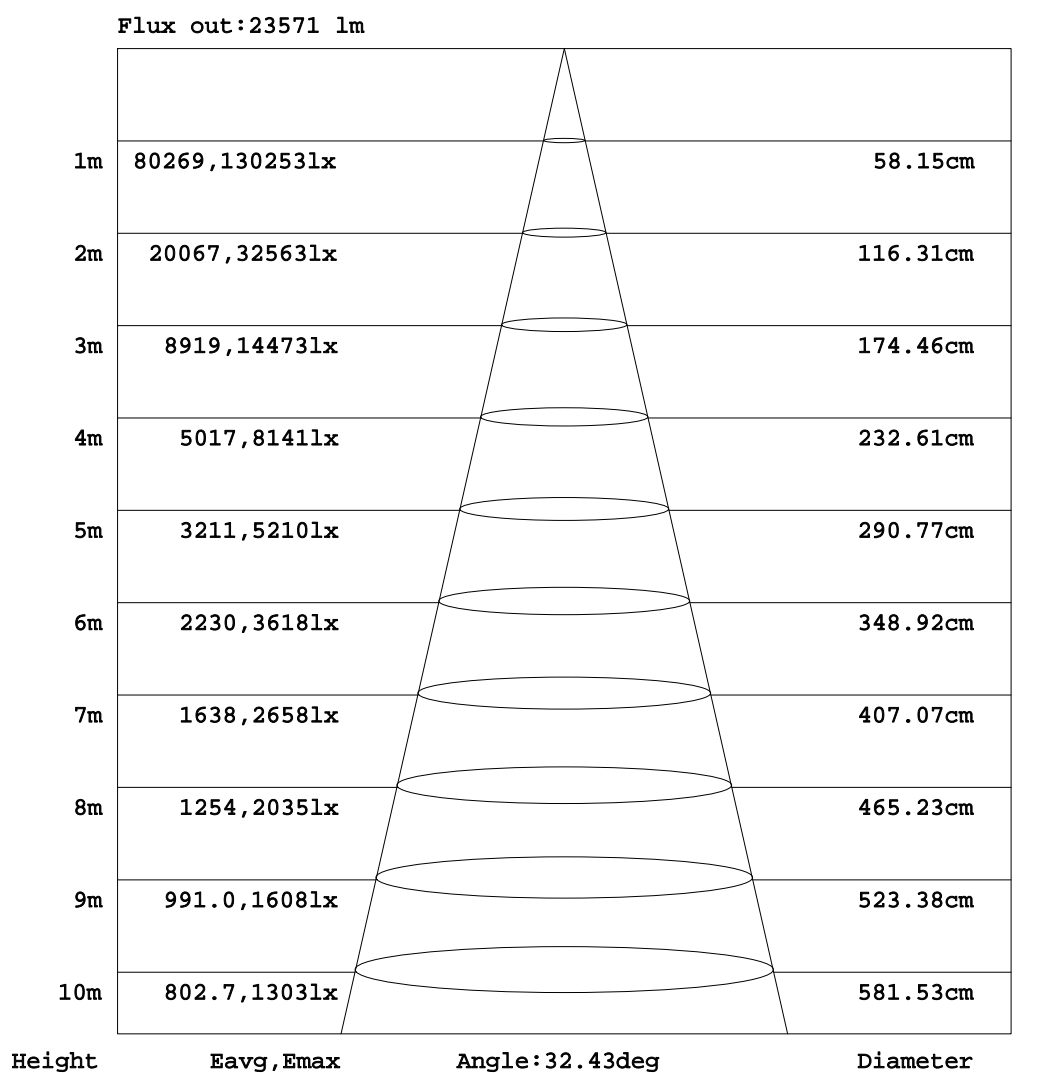


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Link Chai
Test Date:2022-04-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:1.900m [K=1.2828]
Remarks:

AAI Figure

Test:U:230.26V I:2.2162A P:505.10W PF:0.9898 Freq:50.01Hz Lamp Flux:74998.6x1 lm		
NAME: LED Flood Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.: 545.0*715.1*69.7mm	SERIAL No.:N/A
MFR.:	SUR.:L612*W490mm	Shielding Angle:N/A

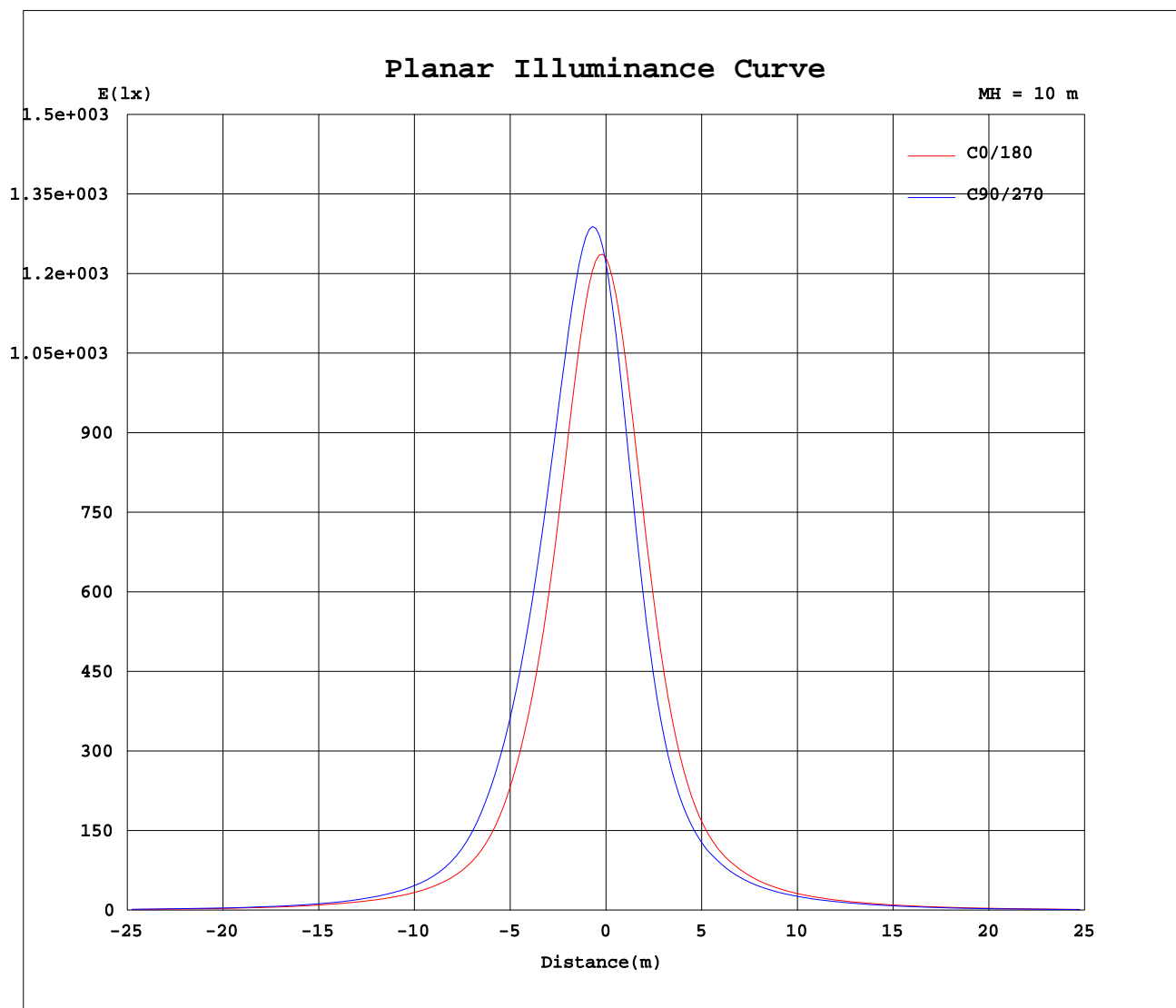


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.9DEG
 Operators:Link Chai
 Test Date:2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
 Humidity:60%
 Test Distance:1.900m [K=1.2828]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.9DEG
Operators: Link Chai
Test Date: 2022-04-14

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity: 60%
Test Distance: 1.900m [K=1.2828]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.26V I:2.2162A P:505.10W PF:0.9898 Freq:50.01Hz Lamp Flux:74998.6x1 lm		
NAME: LED Flood Light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.: 545.0*715.1*69.7mm	SERIAL No.:N/A
MFR.:	SUR.:L612*W490mm	Shielding Angle:N/A

Table--1

UNIT: ×100cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	1230	1228	1227	1224	1220	1216	1211	1207	1230	1228	1227	1224	1220	1216	1211	1207			
5	1193	1255	1299	1314	1298	1254	1192	1123	1091	1035	996	977	979	1005	1051	1113			
10	1001	1105	1184	1217	1192	1118	1017	910	847	768	713	683	684	722	793	890			
15	754	865	963	1014	987	893	775	661	595	522	472	443	442	474	545	645			
20	536	633	731	793	763	663	551	451	395	343	308	289	287	308	360	445			
25	368	448	536	593	562	474	378	300	263	231	210	199	198	209	240	299			
30	245	305	384	426	398	332	257	205	185	166	154	148	147	152	168	201			
35	167	205	265	291	267	225	179	149	140	128	119	114	113	116	126	144			
40	122	145	181	195	180	157	131	115	110	101	94.8	90.9	89.7	92.0	98.1	109			
45	94.8	110	130	139	131	117	102	91.6	89.0	82.7	77.8	74.8	73.9	75.3	79.3	86.6			
50	75.7	85.6	97.3	103	99.8	91.4	82.2	75.4	74.2	68.9	64.4	62.4	62.1	62.6	65.0	70.2			
55	61.4	67.7	73.2	76.6	76.2	72.1	67.8	63.7	61.7	56.7	52.8	51.3	51.1	51.2	52.4	56.0			
60	47.5	51.4	54.8	57.8	58.6	56.4	53.5	51.1	49.5	45.4	42.3	41.0	40.5	40.5	41.1	43.8			
65	35.5	38.3	40.5	42.7	43.6	42.6	40.9	39.2	37.8	34.7	32.2	31.1	30.5	30.5	31.0	33.0			
70	24.6	27.0	29.0	30.5	31.2	30.8	29.5	27.9	26.3	24.3	22.6	21.7	21.0	21.2	21.8	23.1			
75	15.5	17.1	19.0	20.0	20.3	20.1	19.2	17.6	16.6	15.0	13.8	13.0	12.8	12.9	13.6	14.5			
80	7.65	8.74	10.0	10.3	10.3	10.2	9.84	8.64	7.99	6.91	6.11	5.67	5.58	5.80	6.26	7.02			
85	2.16	2.71	3.01	3.09	3.01	2.89	2.70	2.38	2.02	1.68	1.17	1.03	1.04	1.22	1.58	1.89			
90	0.36	0.33	0.04	0.32	0.48	0.45	0.41	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
95	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03			
100	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03			
105	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04			
110	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	0.04	0.04	0.04	0.04			
115	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.06	0.06	0.05	0.05	0.05	0.04			
120	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.05	0.07	0.08	0.09	0.09	0.08	0.08	0.07	0.06			
125	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.07	0.12	0.13	0.14	0.13	0.13	0.12	0.11	0.09			
130	0.10	0.09	0.09	0.08	0.08	0.08	0.08	0.10	0.19	0.22	0.23	0.21	0.19	0.18	0.17	0.16			
135	0.15	0.14	0.12	0.11	0.11	0.11	0.12	0.14	0.32	0.35	0.35	0.29	0.28	0.26	0.28	0.26			
140	0.20	0.18	0.15	0.12	0.13	0.14	0.15	0.16	0.46	0.49	0.48	0.39	0.34	0.36	0.40	0.39			
145	0.25	0.22	0.19	0.15	0.16	0.17	0.19	0.20	0.57	0.59	0.57	0.46	0.38	0.42	0.47	0.48			
150	0.30	0.27	0.24	0.18	0.19	0.22	0.23	0.23	0.63	0.64	0.59	0.49	0.39	0.42	0.48	0.52			
155	0.34	0.31	0.27	0.24	0.22	0.25	0.24	0.24	0.64	0.64	0.60	0.50	0.41	0.39	0.44	0.52			
160	0.34	0.31	0.28	0.24	0.23	0.25	0.24	0.23	0.63	0.63	0.58	0.50	0.39	0.35	0.41	0.48			
165	0.33	0.30	0.28	0.24	0.24	0.24	0.23	0.22	0.60	0.59	0.54	0.48	0.39	0.37	0.39	0.45			
170	0.32	0.29	0.26	0.24	0.24	0.24	0.21	0.20	0.54	0.53	0.48	0.41	0.36	0.32	0.33	0.39			
175	0.32	0.28	0.26	0.26	0.25	0.24	0.22	0.22	0.44	0.44	0.40	0.35	0.31	0.29	0.30	0.32			
180	0.39	0.34	0.29	0.27	0.26	0.25	0.27	0.31	0.39	0.39	0.35	0.32	0.29	0.27	0.26	0.27			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.9DEG
Operators:Link Chai
Test Date:2022-04-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.366
Humidity:60%
Test Distance:1.900m [K=1.2828]
Remarks: