



TEST REPORT	
Testing Laboratory	Shenzhen BCTC Testing Co., Ltd.
Address	BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Applicant's name	EXTRA LIGHTING MANUFACTURING LTD
Address	NO. 19 Yunpu 1st Road Yunpu Industrial Zone, Guangzhou, 510530 China
Procedure deviation	N.A.
Non-standard test method	N.A.
Type of test object.....	LED PANEL LIGHT
Trademark.....	N.A.
Model/Type reference	RH-PL3012 UGR<19
Manufacturer	EXTRA LIGHTING MANUFACTURING LTD
Address	NO. 19 Yunpu 1st Road Yunpu Industrial Zone, Guangzhou, 510530 China
Particulars: test items vs. test requirements	

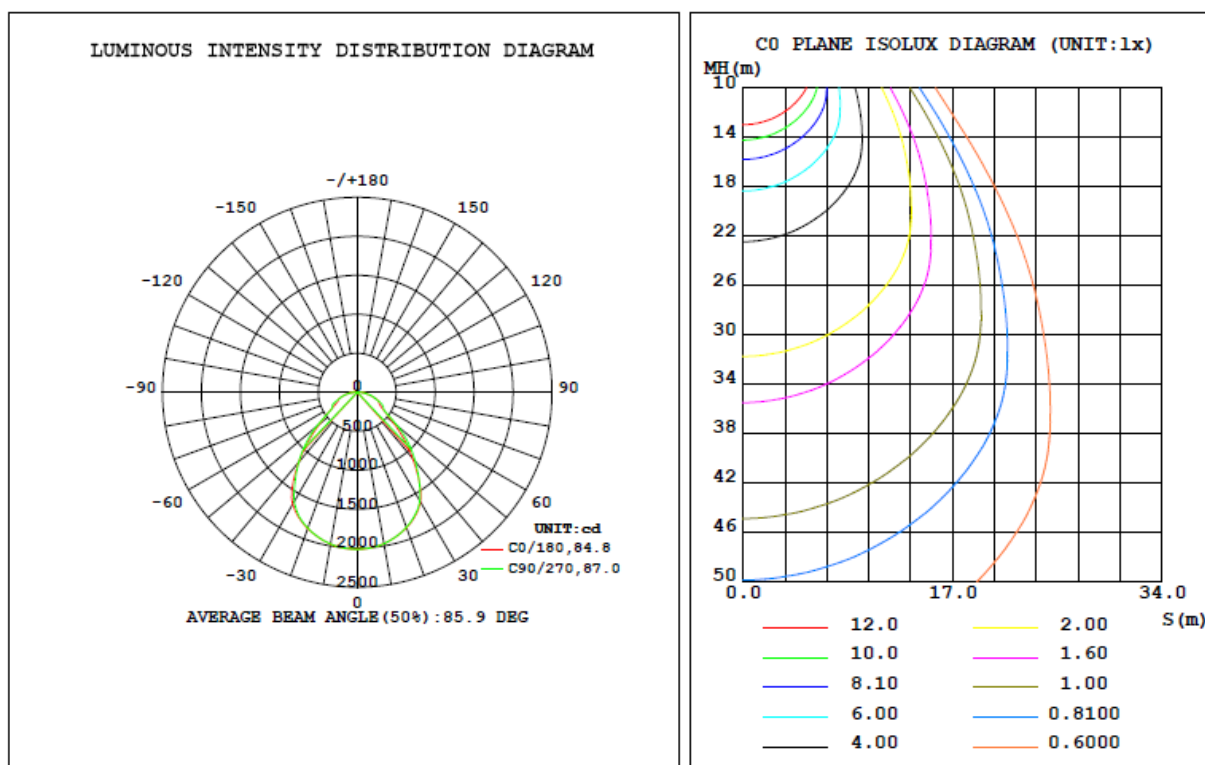
**Testing procedure and testing location:****Testing Laboratory** **Shenzhen BCTC Testing Co., Ltd.****Address** BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China**Date of Test** June 01, 2017– June 05, 2017**Tested by (name + signature)** Any Wang**Reviewed by (name + signature)** Levi Li**Approved by (name + signature)** Awen He



LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.0V I:0.1694A P:38.64W PF:0.9503 Freq:50.01Hz Lamp Flux:4109.95x1 lm		
NAME: LED panel light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:BCTC	SUR.:	Shielding Angle:N/A

DATA OF LAMP		PHOTOMETRIC DATA Eff: 106.36 lm/W			
MODEL	RH-PL3012 UGR<19	Imax (cd)	2016	S/MH (C0/180)	1.21
NOMINAL POWER (W)	38	LOR (%)	100.0	S/MH (C90/270)	1.19
RATED VOLTAGE (V)	220-240	TOTAL FLUX (lm)	4109.9	η UP, DN (C0-180)	0.0, 49.7
NOMINAL FLUX (lm)	4109.95	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 50.2
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	240	η down (%)	99.9	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2017-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.4966]
Remarks:

**ZONAL FLUX DIAGRAM****ZONAL FLUX DIAGRAM:**

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1971	1968	1970	1971	1976	1976	1975	1970	0- 10	190.2	190.2	4.63,4.63
20	1848	1841	1842	1846	1861	1858	1855	1846	10- 20	541.6	731.8	17.8,17.8
30	1619	1588	1606	1603	1657	1624	1618	1605	20- 30	805.5	1537	27.4,27.4
40	1109	1078	1160	1090	1170	1094	1169	1098	30- 40	867.4	2405	58.5,58.5
50	609.7	718.7	681.6	751.3	639.8	758.7	683.7	738.5	40- 50	702.9	3107	75.6,75.6
60	345.5	279.3	387.2	309.9	342.5	300.2	365.7	289.0	50- 60	467.7	3575	87,87
70	262.6	160.4	256.4	152.7	254.0	148.7	250.2	164.1	60- 70	276.4	3852	92.7,92.7
80	127.8	123.1	120.3	141.6	136.9	144.1	123.9	126.1	70- 80	182.2	4034	98.1,98.1
90	0.1954	0.1997	0.3101	0.5502	1.597	1.675	0.3409	0.3396	80- 90	72.62	4106	99.9,99.9
100	0	0	0	0	0.5930	0.3410	0.5100	0.4235	90-100	0.2451	4107	99.9,99.9
110	0	0	0	0	0.8495	0.8492	0.6813	0.7670	100-110	0.2135	4107	99.9,99.9
120	0.0849	0	0	0	1.442	0.9253	1.105	0.8507	110-120	0.4616	4107	99.9,99.9
130	0.0849	0	0.0850	0	1.529	0.9253	1.360	0.8507	120-130	0.5564	4108	100,100
140	0.1714	0	0.1700	0.0851	1.529	0.9253	1.360	0.8507	130-140	0.5378	4108	100,100
150	0.5946	0.2551	0.7625	0.2552	1.529	1.190	1.530	1.106	140-150	0.5186	4109	100,100
160	0.6796	0.5102	1.187	0.6792	1.529	1.446	1.530	1.446	150-160	0.4763	4109	100,100
170	1.274	1.275	1.445	1.531	1.529	1.446	1.530	1.446	160-170	0.3526	4110	100,100
180	1.529	1.531	1.445	1.531	1.529	1.446	1.358	1.446	170-180	0.1409	4110	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2781 lm

%lum = 67.7%

%lamp = 67.7%

Conical surface Flux(120deg): 3575.2 lm

%lum = 87.0%

%lamp = 87.0%

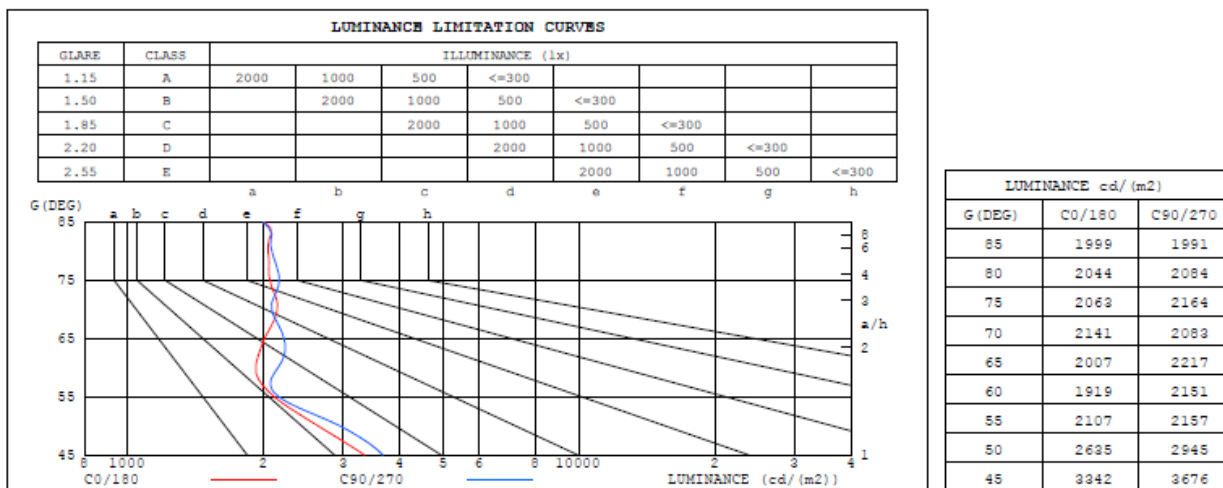
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C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:Seth
Test Date:2017-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity:65.7%
Test Distance:26.000m [K=1.4966]
Remarks:



LUMINANCE LIMITATION CURVES

Test:U:240.0V I:0.1694A P:38.64W PF:0.9503 Freq:50.01Hz Lamp Flux:4109.95x1 lm		
NAME: LED panel light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:BCTC	SUR.:	Shielding Angle:N/A



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2017-06-05

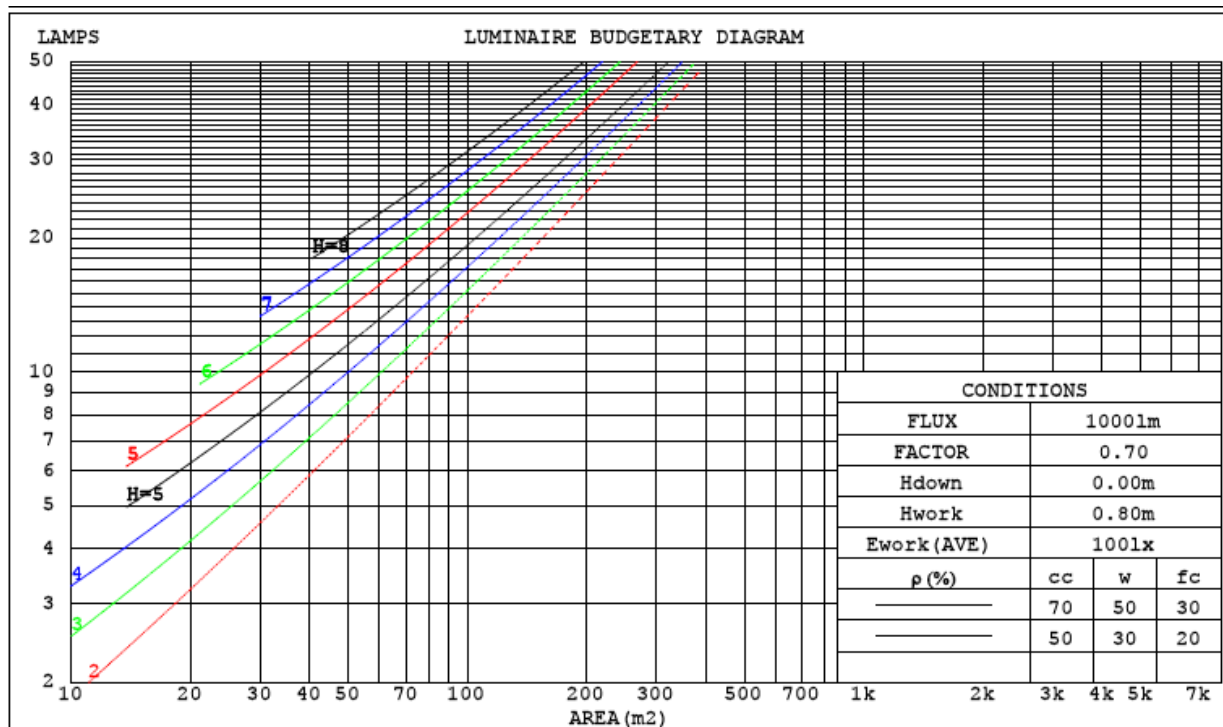
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γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.4966]
Remarks:



CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.0V I:0.1694A P:38.64W PF:0.9503 Freq:50.01Hz Lamp Flux:4109.95x1 lm		
NAME: LED panel light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: BCTC	SUR.:	Shielding Angle:N/A

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	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	1.06	1.02	.99	1.04	1.00	.97	.99	.97	.94	.96	.93	.91	.92	.90	.88	.86
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.86	.82	.79	.83	.80	.77	.75
3.0	.84	.77	.71	.83	.76	.71	.80	.74	.70	.77	.72	.68	.75	.71	.67	.65
4.0	.76	.68	.62	.75	.67	.62	.72	.66	.61	.70	.65	.60	.68	.63	.59	.57
5.0	.69	.61	.55	.68	.60	.54	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.57	.52	.47	.45
7.0	.57	.49	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.53	.47	.43	.41
8.0	.53	.45	.40	.52	.45	.40	.51	.44	.39	.50	.44	.39	.49	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.36	.45	.40	.35	.34
10.0	.45	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.37	.33	.31



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2017-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.4966]
Remarks:



WEC AND CCEC

Test:U:240.0V I:0.1694A P:38.64W PF:0.9503 Freq:50.01Hz Lamp Flux:4109.95x1 lm					
NAME: LED panel light			TYPE:LED		WEIGHT:N/A
SPEC.:N/A			DIM.:		SERIAL No.:N/A
MFR.:BCTC			SUR.:		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	.271	.154	.049	.264	.151	.048	.251	.144	.046	.239	.138	.044	.228	.132	.043		
2.0	.255	.140	.043	.249	.137	.042	.237	.132	.041	.227	.127	.040	.217	.123	.039		
3.0	.238	.126	.038	.232	.124	.037	.222	.120	.037	.213	.117	.036	.204	.113	.035		
4.0	.221	.115	.034	.217	.113	.034	.208	.110	.033	.200	.107	.032	.192	.104	.032		
5.0	.207	.105	.030	.202	.104	.030	.195	.101	.030	.187	.099	.029	.181	.096	.029		
6.0	.193	.097	.028	.190	.096	.028	.183	.094	.027	.176	.092	.027	.170	.090	.027		
7.0	.181	.090	.025	.178	.089	.025	.172	.087	.025	.166	.085	.025	.161	.083	.025		
8.0	.171	.083	.023	.168	.083	.023	.162	.081	.023	.157	.080	.023	.152	.078	.023		
9.0	.161	.078	.022	.158	.077	.022	.153	.076	.021	.149	.075	.021	.144	.073	.021		
10.0	.152	.073	.020	.150	.072	.020	.145	.071	.020	.141	.070	.020	.137	.069	.020		

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	.191	.191	.191	.163	.163	.163	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.178	.157	.138	.153	.135	.119	.104	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.168	.133	.103	.144	.114	.089	.099	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.159	.115	.080	.136	.099	.069	.094	.069	.048	.054	.040	.029	.017	.013	.009	
4.0	.151	.101	.063	.129	.087	.055	.089	.061	.039	.051	.036	.023	.017	.012	.008	
5.0	.143	.090	.051	.123	.078	.045	.085	.055	.032	.049	.032	.019	.016	.010	.006	
6.0	.136	.082	.043	.117	.071	.037	.081	.050	.026	.047	.029	.016	.015	.010	.005	
7.0	.130	.075	.036	.111	.065	.032	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.069	.031	.106	.060	.027	.074	.042	.019	.043	.025	.012	.014	.008	.004	
9.0	.118	.064	.027	.101	.055	.024	.070	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.113	.060	.024	.097	.052	.021	.067	.036	.015	.039	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:Seth
Test Date:2017-06-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity:65.7%
Test Distance:26.000m [K=1.4966]
Remarks:



UGR(Unified Glare Rating) Table

Test:U:240.0V I:0.1694A P:38.64W PF:0.9503 Freq:50.01Hz Lamp Flux:4109.95x1 lm		
NAME: LED panel light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:BCTC	SUR.:	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	15.1	16.4	15.3	16.6	16.8	15.3	16.7	15.6	16.9	17.1
3H	16.2	17.4	16.4	17.6	17.9	16.3	17.6	16.6	17.8	18.0
4H	16.7	17.9	17.0	18.2	18.4	16.9	18.1	17.2	18.3	18.6
6H	17.3	18.4	17.6	18.7	18.9	17.4	18.5	17.8	18.8	19.1
8H	17.5	18.6	17.8	18.8	19.1	17.6	18.7	18.0	19.0	19.3
12H	17.7	18.7	18.0	19.0	19.3	17.8	18.8	18.1	19.1	19.4
4H 2H	15.2	16.4	15.5	16.6	16.9	15.4	16.6	15.7	16.8	17.1
3H	16.5	17.5	16.9	17.8	18.1	16.6	17.7	17.0	18.0	18.3
4H	17.3	18.2	17.6	18.5	18.8	17.4	18.3	17.7	18.6	19.0
6H	18.0	18.9	18.4	19.2	19.6	18.1	19.0	18.5	19.3	19.7
8H	18.4	19.1	18.8	19.5	19.9	18.4	19.2	18.8	19.6	19.9
12H	18.6	19.3	19.0	19.7	20.1	18.7	19.4	19.1	19.7	20.2
8H 4H	17.5	18.3	17.9	18.6	19.0	17.6	18.4	18.0	18.7	19.1
6H	18.5	19.1	18.9	19.5	20.0	18.5	19.2	19.0	19.6	20.0
8H	18.9	19.5	19.4	19.9	20.4	18.9	19.5	19.4	19.9	20.4
12H	19.3	19.8	19.8	20.3	20.7	19.3	19.8	19.8	20.2	20.7
12H 4H	17.5	18.2	18.0	18.6	19.0	17.6	18.3	18.1	18.7	19.1
6H	18.6	19.1	19.0	19.6	20.0	18.6	19.2	19.1	19.6	20.1
8H	19.1	19.6	19.6	20.0	20.5	19.1	19.6	19.6	20.0	20.5

Variations with the observer position at spacings:

S = 1.0H	+ 0.3 / - 0.4	+ 0.3 / - 0.5
1.5H	+ 0.1 / - 0.4	+ 0.2 / - 0.4
2.0H	+ 0.7 / - 0.6	+ 0.7 / - 0.5

CIE Pub.117 Corrected 4110 lm Total Lamp Luminous Flux. ($81\log(F/F_0) = 4.9$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.5DEG
Operators:Seth
Test Date:2017-06-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity:65.7%
Test Distance:26.000m [K=1.4966]
Remarks:



UTILIZATION FACTORS TABLE

Test:U:240.0V I:0.1694A P:38.64W PF:0.9503 Freq:50.01Hz Lamp Flux:4109.95x1 lm		
NAME: LED panel light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: BCTC	SUR.:	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) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	49	65	55	49	64	55	49	44
0.80	75	65	59	74	65	59	73	64	59	53
1.00	83	74	67	82	73	67	80	74	67	60
1.25	89	81	75	88	80	74	86	78	73	67
1.50	94	85	80	92	85	79	89	83	78	71
2.00	99	92	87	98	91	86	94	89	84	77
2.50	102	96	91	100	95	90	97	92	88	80
3.00	105	99	95	103	98	94	99	95	91	84
4.00	108	104	100	106	102	98	102	98	96	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

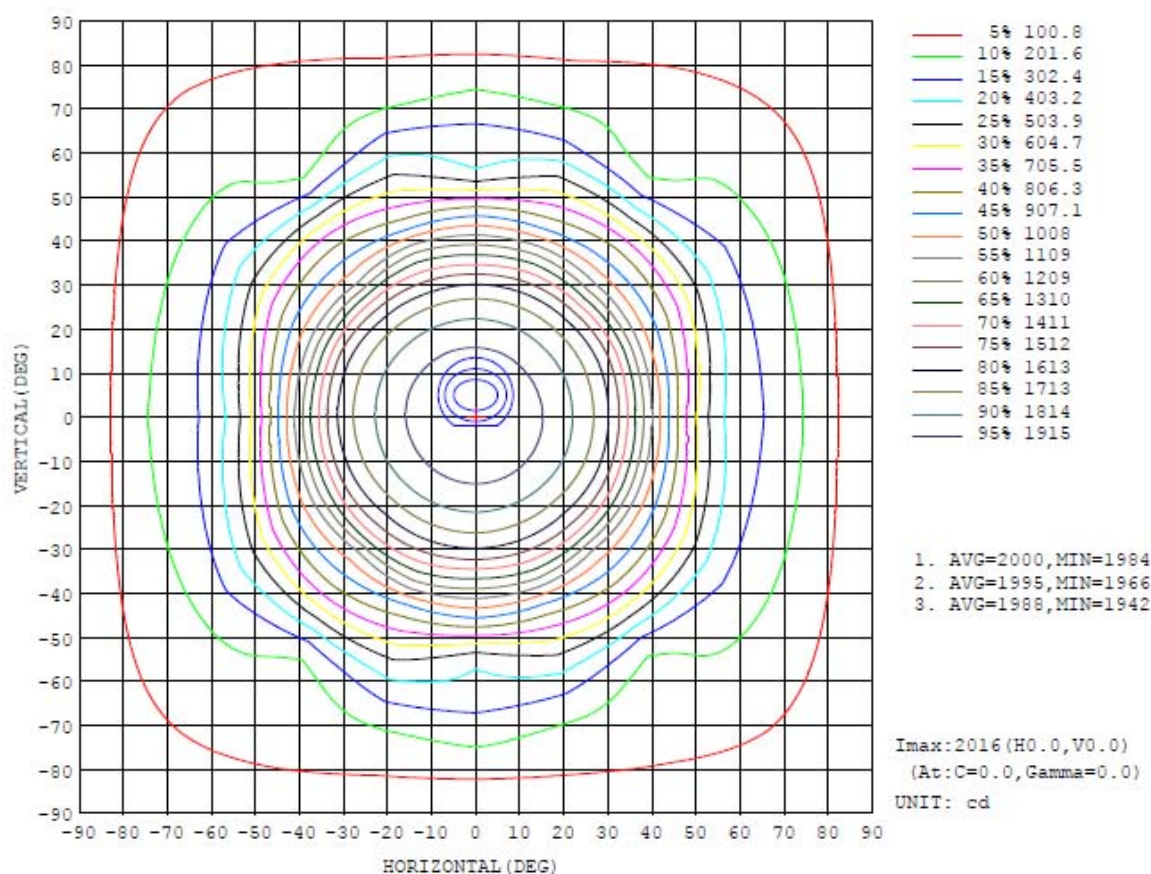
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.352
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Remarks:



ISOCANDELA DIAGRAM

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SPEC.:N/A	DIM.:	SERIAL No.:N/A
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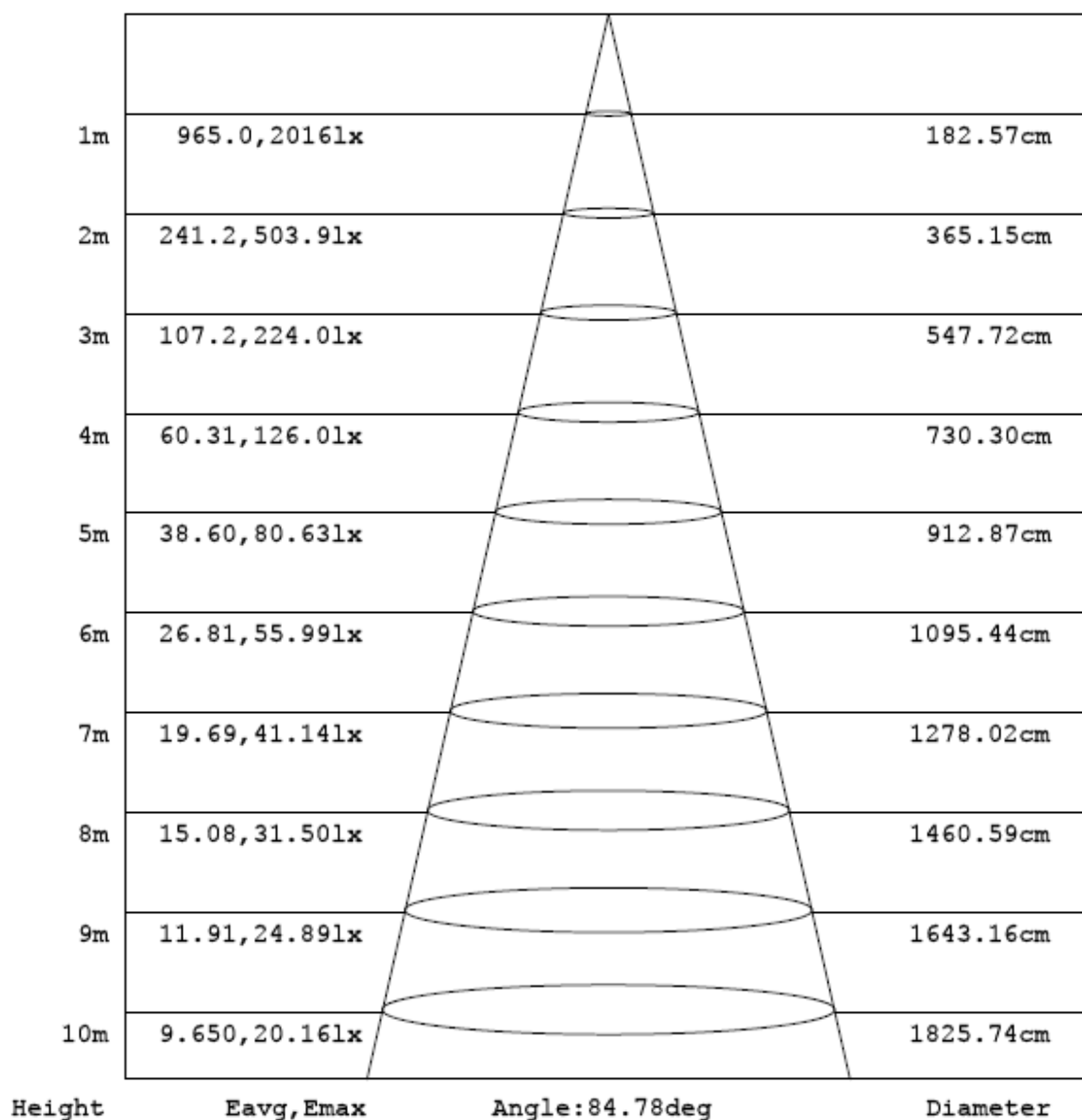
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**AAI Figure**

Test:U:240.0V I:0.1694A P:38.64W PF:0.9503 Freq:50.01Hz Lamp Flux:4109.95x1 lm		
NAME: LED panel light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.: BCTC	SUR.:	Shielding Angle:N/A



Flux out: 2636 lm



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

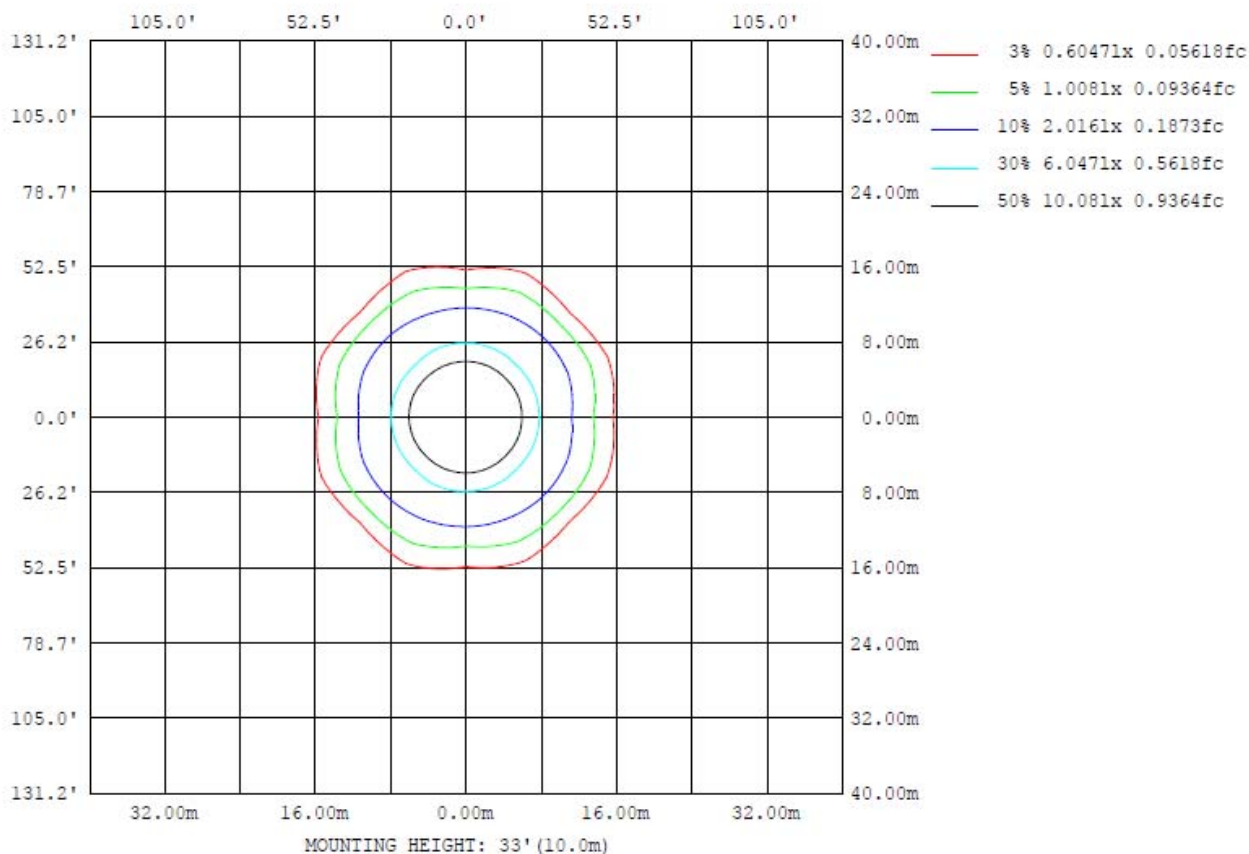
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Humidity: 65.7%
Test Distance: 26.000m [K=1.4966]
Remarks:



ISOLUX DIAGRAM

Test:U:240.0V I:0.1694A P:38.64W PF:0.9503 Freq:50.01Hz Lamp Flux:4109.95x1 lm		
NAME: LED panel light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:BCTC	SUR.:	Shielding Angle:N/A

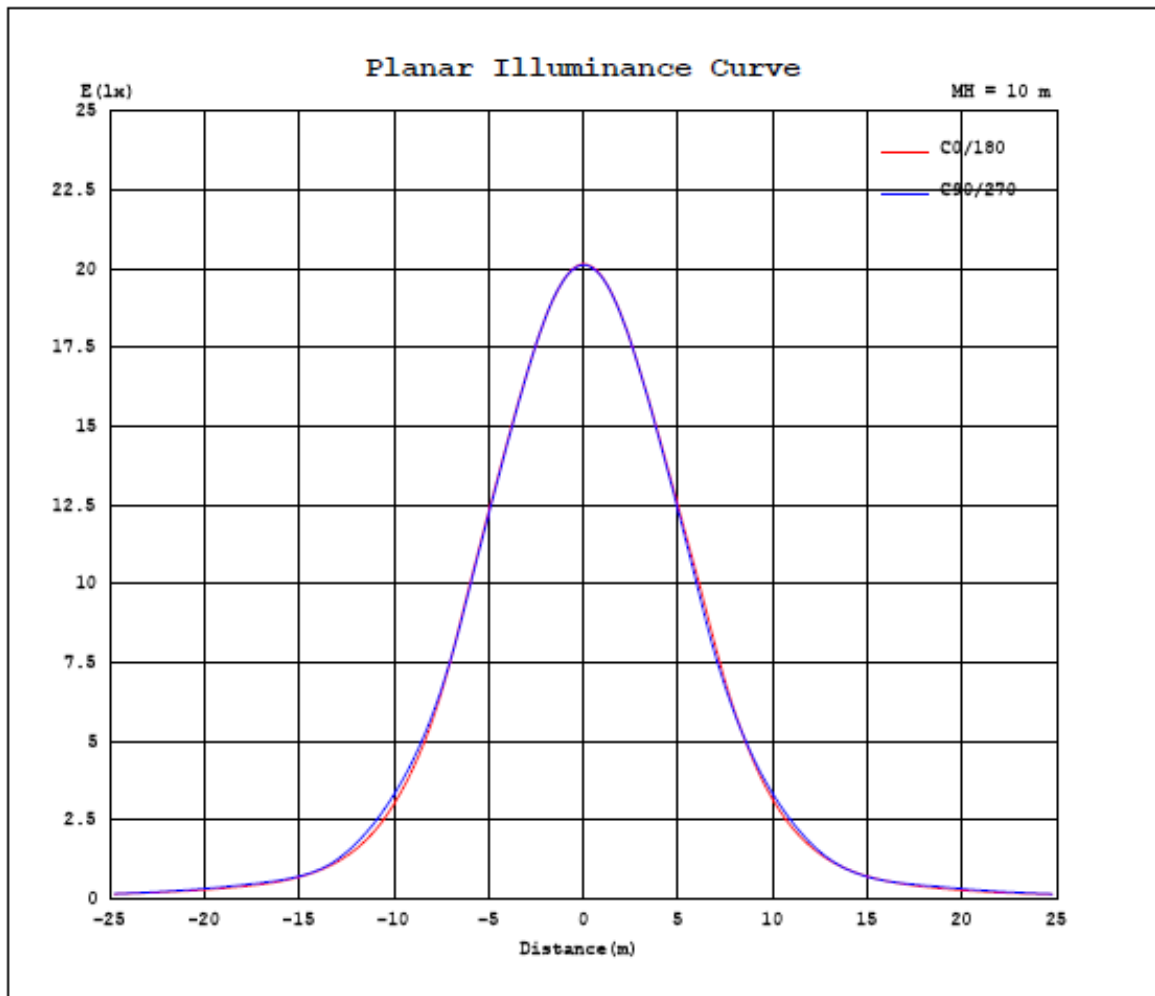


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2017-06-05

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.4966]
Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.5DEG
Operators: Seth
Test Date: 2017-06-05

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.352
Humidity: 65.7%
Test Distance: 26.000m [K=1.4966]
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.0V I:0.1694A P:38.64W PF:0.9503 Freq:50.01Hz Lamp Flux:4109.95x1 lm		
NAME: LED panel light	TYPE:LED	WEIGHT:N/A
SPEC.:N/A	DIM.:	SERIAL No.:N/A
MFR.:BCTC	SUR.:	Shielding Angle:N/A

Table--1

UNIT: cd

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	2016	2015	2014	2012	2013	2012	2012	2012	2016	2015	2014	2012	2013	2012	2012	2012			
5	2002	2002	2002	2002	2002	2002	2001	2002	2006	2007	2005	2003	2005	2002	2000	2000			
10	1971	1970	1968	1969	1970	1970	1971	1970	1976	1976	1976	1976	1975	1972	1970	1968			
15	1918	1918	1918	1917	1917	1916	1918	1921	1926	1928	1927	1927	1925	1922	1918	1917			
20	1848	1848	1841	1841	1842	1843	1846	1854	1861	1863	1858	1855	1855	1851	1846	1848			
25	1754	1752	1737	1737	1744	1743	1745	1762	1774	1774	1763	1759	1761	1757	1751	1756			
30	1619	1611	1588	1598	1606	1607	1603	1635	1657	1652	1624	1614	1618	1613	1605	1622			
35	1382	1382	1366	1391	1386	1407	1403	1421	1444	1438	1397	1409	1392	1399	1362	1398			
40	1109	1108	1078	1148	1160	1176	1090	1159	1170	1153	1094	1179	1169	1157	1098	1115			
45	851	894	903	889	936	899	917	938	889	935	914	899	942	904	903	907			
50	610	713	719	700	682	729	751	750	640	757	759	712	684	721	738	736			
55	435	525	491	536	445	569	528	564	449	574	534	565	444	558	492	542			
60	346	380	279	407	387	434	310	414	342	418	300	432	366	407	289	390			
65	305	283	173	296	337	329	180	300	277	302	164	327	330	295	171	294			
70	264	220	160	212	256	236	153	215	254	221	149	222	250	220	164	218			
75	192	167	161	163	202	169	152	156	195	162	160	165	195	170	172	168			
80	128	133	123	124	130	126	142	133	137	134	144	124	134	119	136	131			
85	62.7	70.0	58.7	64.2	62.5	67.9	67.3	71.2	72.1	79.5	71.7	76.0	62.8	70.8	64.5	68.9			
90	0.20	0.30	0.20	0.54	0.31	0.68	0.55	0.93	1.60	4.86	1.67	2.45	0.34	0.42	0.34	0.34			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.34	0.26	0.34	0.42	0.34	0.26	0.34			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.43	0.34	0.43	0.51	0.43	0.42	0.51			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.60	0.51	0.51	0.51	0.60	0.60	0.77			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.77	0.85	0.68	0.68	0.68	0.77	1.02			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	1.02	0.85	0.68	0.94	0.68	0.85	1.28			
120	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.28	0.94	0.68	1.10	0.68	0.85	1.28			
125	0.08	0.17	0.00	0.00	0.00	0.00	0.00	0.09	1.53	1.45	0.94	1.19	1.44	1.19	0.85	1.45			
130	0.08	0.17	0.00	0.00	0.08	0.09	0.00	0.09	1.53	1.45	0.94	1.36	1.36	1.36	0.85	1.45			
135	0.08	0.17	0.00	0.00	0.08	0.09	0.09	0.09	1.53	1.62	0.94	1.36	1.36	1.36	0.85	1.53			
140	0.17	0.17	0.00	0.08	0.17	0.17	0.09	0.17	1.53	1.70	0.94	1.36	1.36	1.36	0.85	1.53			
145	0.42	0.34	0.00	0.25	0.42	0.34	0.09	0.34	1.53	1.70	0.94	1.36	1.36	1.53	0.85	1.53			
150	0.59	0.51	0.26	0.34	0.76	0.60	0.26	0.43	1.53	1.78	1.19	1.36	1.53	1.53	1.11	1.53			
155	0.59	0.51	0.51	0.59	0.93	0.68	0.51	0.51	1.53	1.53	1.45	1.36	1.53	1.53	1.28	1.53			
160	0.68	0.60	0.51	0.68	1.19	1.02	0.68	0.59	1.53	1.53	1.45	1.36	1.53	1.53	1.45	1.53			
165	0.85	0.68	0.68	0.85	1.44	1.45	1.02	0.68	1.53	1.53	1.45	1.44	1.53	1.61	1.45	1.53			
170	1.27	1.36	1.27	1.27	1.44	1.45	1.53	1.53	1.53	1.53	1.45	1.53	1.53	1.45	1.45	1.53			
175	1.53	1.45	1.53	1.44	1.44	1.45	1.53	1.53	1.53	1.53	1.45	1.53	1.53	1.45	1.45	1.53			
180	1.53	1.45	1.53	1.36	1.44	1.45	1.53	1.53	1.53	1.53	1.45	1.53	1.36	1.45	1.45	1.53			

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--END OF REPORT--