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Ten-Lighting Technology Co.Ltd

LumCAT: LED Downlights

Luminaire: D011-0904W

Report No: 18-0555-09

Voltage(V): 220.0200

Test No: 18-0555-09

Current(A): 0.0570

LampCAT: LED

Power (W): 11.3030

Lamp flux(lm)

PF: 0.8960

Number of Lamps: 1

Ballast type: Ten-Lighting/LC2018-08

Length(mm): 110

Width(mm): 110

Phm Type: C

Height(mm): 60

Photometric Results

Lumens(lm): 1211.18

Lumens(lm)/Power(W): 107.16

Central intensity(cd): 2858.522

Maximum intensity(cd): 2904.949

Angle of maximum intensity: $C=305.0 \gamma=2.5$

Beam Angle(50%Imax): [C0/180]Left=14.6 Right=16.4

[C90/270]Left=17.3 Right=13.9

Field angle(10%Imax): [C0/180]Left=31.8 Right=33.4

[C90/270]Left=34.4 Right=31.0

Equipment: GMS-2000
Temperature(°C): 25.2

Date: 2018/9/25
Humidity(%): 61.0%

Operator: Yi-Fan Liao
Distance(m): 16.20

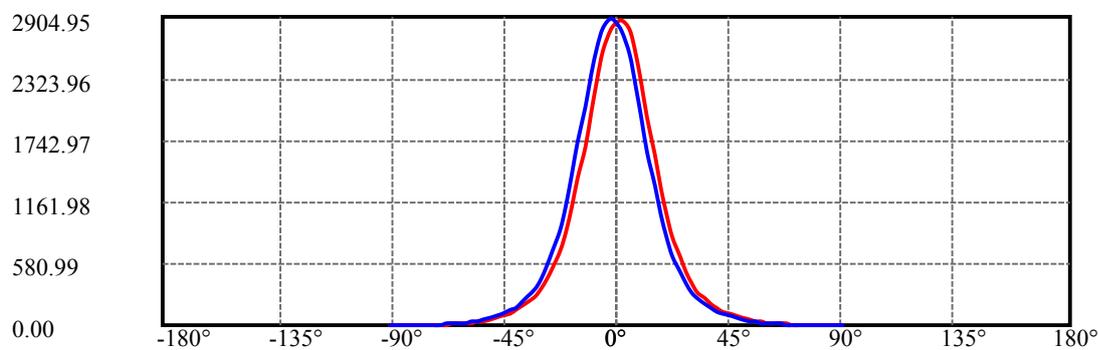
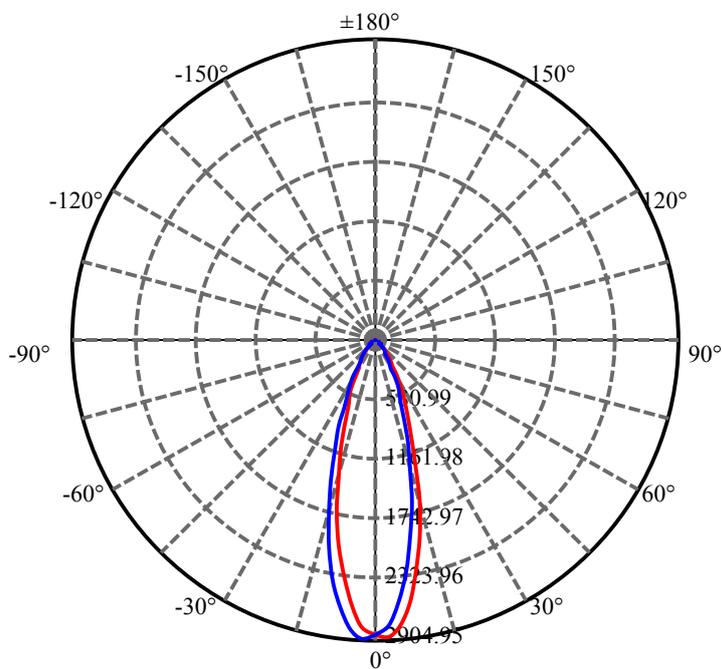
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2858.521	.000	.000	.000%	.000%
2.5	2822.153	16.986	16.986	1.402%	1.402%
5.0	2673.885	49.270	66.256	4.068%	5.470%
7.5	2440.357	76.315	142.571	6.301%	11.771%
10.0	2147.084	95.653	238.224	7.898%	19.669%
12.5	1825.708	106.234	344.458	8.771%	28.440%
15.0	1508.823	108.635	453.093	8.969%	37.409%
17.5	1219.657	104.652	557.745	8.640%	46.050%
20.0	970.911	96.514	654.259	7.969%	54.018%
22.5	766.369	86.305	740.564	7.126%	61.144%
25.0	600.765	75.470	816.034	6.231%	67.375%
27.5	470.657	64.953	880.987	5.363%	72.738%
30.0	369.297	55.376	936.363	4.572%	77.310%
32.5	291.316	46.974	983.337	3.878%	81.188%
35.0	232.387	39.880	1023.217	3.293%	84.481%
37.5	186.821	33.976	1057.194	2.805%	87.286%
40.0	150.892	28.974	1086.167	2.392%	89.678%
42.5	121.473	24.615	1110.782	2.032%	91.711%
45.0	96.392	20.650	1131.432	1.705%	93.416%
47.5	75.605	17.030	1148.462	1.406%	94.822%
50.0	58.174	13.786	1162.248	1.138%	95.960%
52.5	44.236	10.947	1173.195	.904%	96.864%
55.0	33.716	8.617	1181.812	.711%	97.575%
57.5	25.912	6.796	1188.608	.561%	98.136%
60.0	20.299	5.415	1194.023	.447%	98.583%
62.5	15.838	4.343	1198.365	.359%	98.942%
65.0	12.039	3.427	1201.792	.283%	99.225%
67.5	9.065	2.648	1204.440	.219%	99.443%
70.0	6.583	1.999	1206.439	.165%	99.608%
72.5	4.429	1.429	1207.868	.118%	99.726%
75.0	3.014	.979	1208.848	.081%	99.807%
77.5	2.194	.693	1209.541	.057%	99.865%
80.0	1.615	.512	1210.053	.042%	99.907%
82.5	1.283	.393	1210.446	.032%	99.939%
85.0	.933	.302	1210.748	.025%	99.964%
87.5	.762	.232	1210.980	.019%	99.983%
90.0	.696	.200	1211.179	.016%	100.000%

ZONAL LUMEN SUMMARY

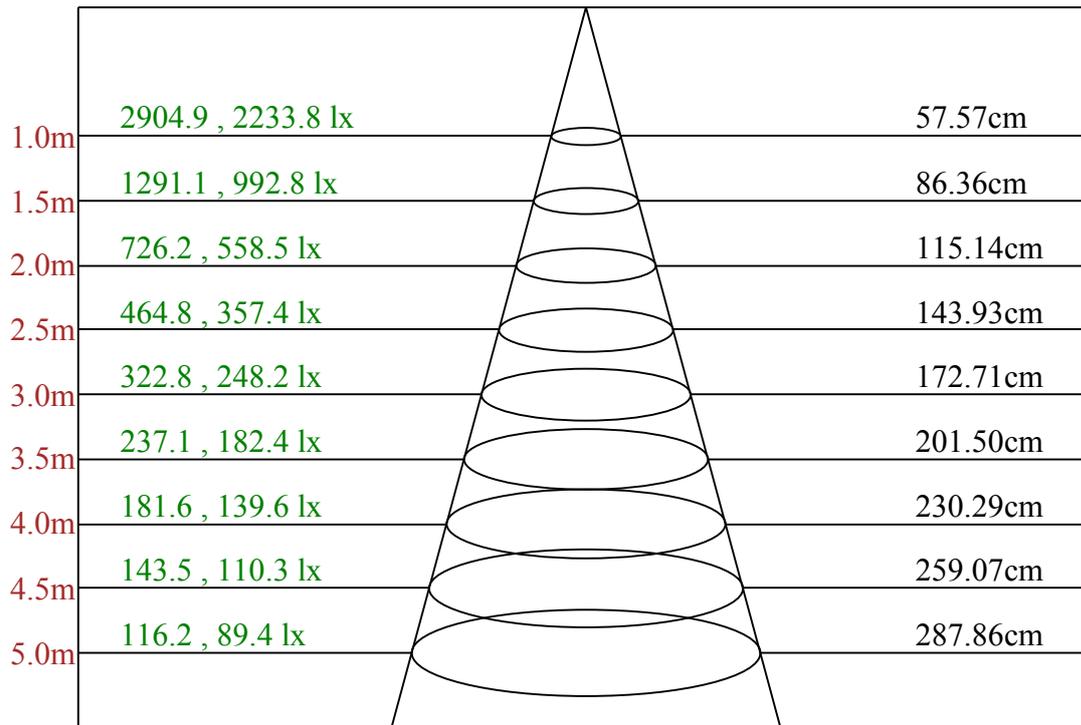
Zone	Lumens	%Fixt
0-30	936.36	77.31%
0-40	1086.17	89.68%
0-60	1194.02	98.58%
0-90	1210.98	99.98%
0-120	1210.98	99.98%
0-180	1211.18	100.00%
60-90	22.37	1.85%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-31.73	968.94	80.00%

ZONAL LUMEN SUMMARY

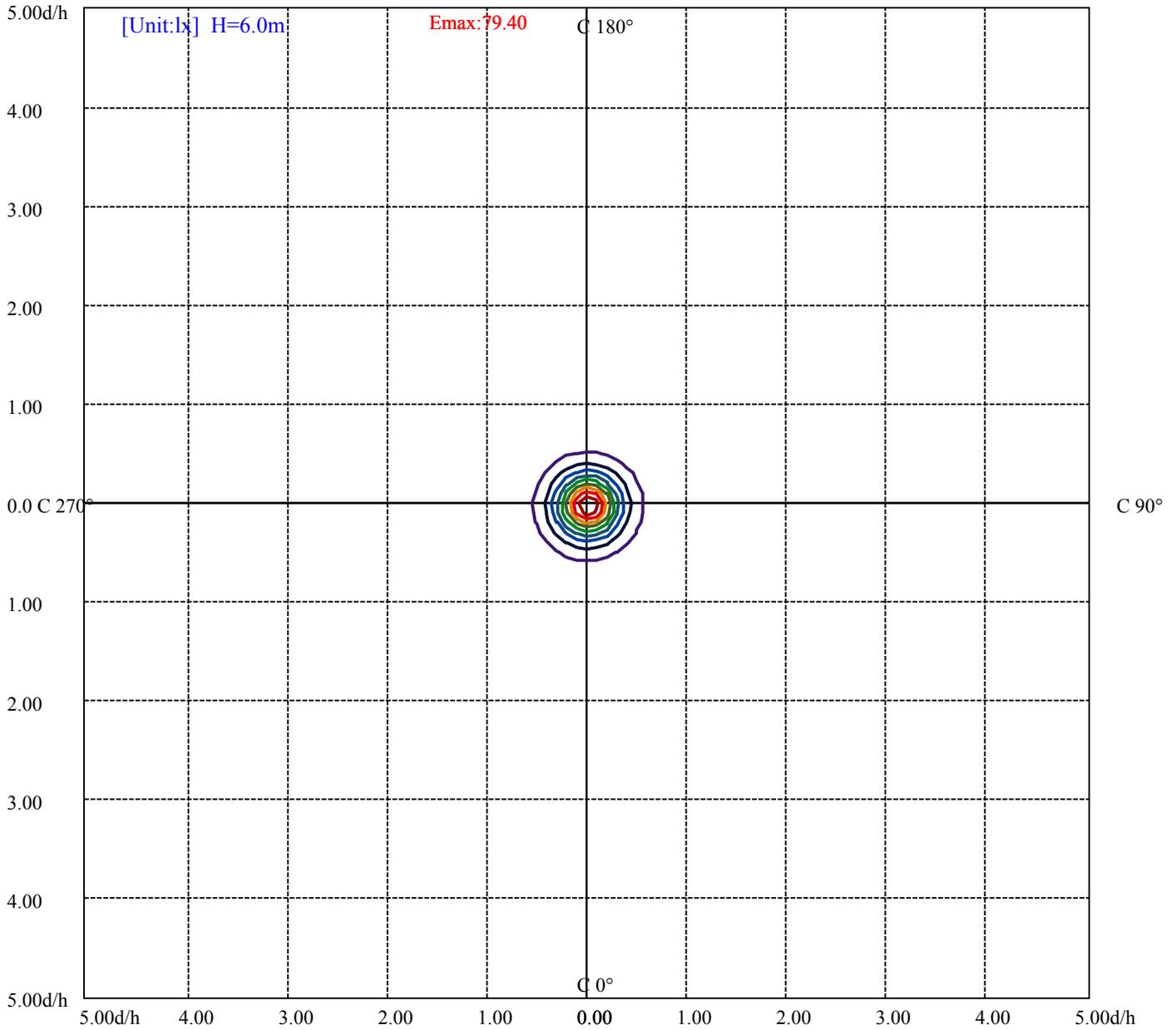
0-10	238.22
10-20	416.03
20-30	282.10
30-40	149.80
40-50	76.08
50-60	31.77
60-70	12.42
70-80	3.61
80-90	0.93
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C0/C180: —
 C90/C270: —



Max , Ave Beam angle of C305plane32.08



(10%Emax)	7.940333	
(20%Emax)	15.88067	
(30%Emax)	23.821	
(40%Emax)	31.76139	
(50%Emax)	39.70167	
(60%Emax)	47.64194	
(70%Emax)	55.58222	
(80%Emax)	63.52278	
(90%Emax)	71.46305	

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Intensity data(cd)

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C/γ(°)	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
0.0	2858.52	2872.41	2773.47	2565.35	2265.65	1943.63	1611.12	1307.74	1044.51
5.0	2858.52	2873.19	2757.20	2541.99	2254.10	1923.42	1590.12	1288.06	1029.82
10.0	2858.52	2856.14	2753.00	2526.25	2240.98	1901.12	1575.17	1274.15	1010.13
15.0	2858.52	2843.80	2735.94	2504.99	2208.96	1881.17	1549.97	1257.61	1000.68
20.0	2858.52	2833.57	2712.58	2493.44	2196.10	1858.34	1530.03	1240.55	985.99
25.0	2858.52	2830.15	2698.93	2465.89	2169.85	1836.29	1514.28	1223.76	975.23
30.0	2858.52	2832.52	2685.02	2445.94	2140.20	1810.31	1493.28	1207.49	958.96
35.0	2858.52	2825.17	2671.64	2428.36	2118.94	1791.94	1475.44	1187.54	945.05
40.0	2858.52	2824.64	2659.83	2408.41	2102.67	1764.91	1449.72	1169.70	934.55
45.0	2858.52	2813.88	2643.30	2390.83	2079.31	1753.89	1432.14	1156.05	918.28
50.0	2858.52	2807.58	2629.65	2372.46	2059.63	1732.89	1418.75	1139.52	903.32
55.0	2858.52	2806.27	2611.80	2353.30	2045.46	1710.85	1403.79	1127.18	893.87
60.0	2858.52	2792.89	2596.58	2340.97	2028.92	1699.04	1390.67	1113.27	878.12
65.0	2858.52	2785.01	2583.72	2324.96	2005.83	1684.87	1377.81	1101.46	867.36
70.0	2858.52	2777.14	2575.85	2302.65	2000.06	1667.54	1364.69	1086.24	857.92
75.0	2858.52	2775.57	2565.61	2292.68	1981.69	1649.96	1343.69	1072.07	848.99
80.0	2858.52	2775.04	2559.58	2285.59	1964.36	1636.58	1328.73	1066.56	839.02
85.0	2858.52	2753.78	2543.31	2274.31	1950.72	1627.65	1320.07	1055.80	831.15
90.0	2858.52	2766.38	2541.21	2262.50	1939.96	1618.21	1308.53	1046.09	825.64
95.0	2858.52	2752.21	2536.48	2255.94	1929.72	1602.46	1304.33	1040.05	822.49
100.0	2858.52	2753.26	2531.23	2244.91	1925.79	1605.87	1297.50	1029.29	815.14
105.0	2858.52	2755.88	2532.28	2239.93	1912.93	1599.57	1295.93	1032.18	811.46
110.0	2858.52	2744.86	2520.74	2233.37	1911.88	1595.37	1288.32	1026.40	808.58
115.0	2858.52	2742.76	2515.75	2232.58	1912.40	1585.93	1282.81	1023.52	805.95
120.0	2858.52	2746.44	2522.31	2234.15	1904.79	1581.99	1279.66	1018.01	802.80
125.0	2858.52	2748.01	2518.38	2233.37	1908.46	1575.43	1279.13	1020.63	803.59
130.0	2858.52	2745.91	2516.54	2231.27	1906.89	1581.73	1280.45	1018.53	803.85
135.0	2858.52	2746.96	2522.57	2234.41	1909.25	1586.19	1287.01	1022.73	807.00
140.0	2858.52	2744.60	2522.84	2235.20	1922.11	1590.91	1291.73	1028.77	807.00
145.0	2858.52	2751.42	2530.97	2244.39	1925.79	1598.79	1300.92	1034.01	812.25
150.0	2858.52	2750.63	2530.45	2243.60	1933.92	1607.71	1308.00	1041.63	820.65
155.0	2858.52	2749.32	2537.27	2252.26	1942.32	1616.37	1318.76	1051.07	825.11
160.0	2858.52	2755.36	2540.16	2264.86	1951.50	1628.44	1331.88	1060.26	835.35
165.0	2858.52	2760.61	2553.02	2275.62	1964.89	1637.36	1339.49	1074.95	848.73
170.0	2858.52	2765.59	2562.99	2277.19	1976.17	1655.73	1356.29	1088.08	862.38
175.0	2858.52	2770.84	2561.15	2296.35	1987.20	1673.58	1368.89	1101.99	876.02
180.0	2858.52	2776.88	2576.90	2316.03	2001.63	1686.96	1387.52	1116.95	888.10
185.0	2858.52	2778.19	2593.17	2330.73	2022.36	1711.37	1401.96	1131.64	897.81
190.0	2858.52	2783.18	2614.43	2343.33	2043.88	1733.94	1420.06	1148.18	908.30
195.0	2858.52	2789.21	2612.33	2372.72	2069.34	1750.21	1435.81	1161.30	928.51
200.0	2858.52	2793.67	2628.07	2383.74	2088.76	1771.21	1460.22	1179.14	939.27
205.0	2858.52	2812.57	2652.22	2404.21	2106.87	1793.78	1481.47	1198.30	956.07
210.0	2858.52	2818.08	2664.03	2427.57	2121.30	1809.52	1503.52	1220.87	972.34
215.0	2858.52	2827.27	2673.74	2433.34	2147.55	1829.73	1522.42	1243.70	992.02
220.0	2858.52	2823.07	2683.71	2452.50	2158.31	1853.09	1542.89	1257.35	1006.98
225.0	2858.52	2825.17	2694.73	2473.50	2187.70	1875.66	1563.62	1277.56	1019.84
230.0	2858.52	2838.81	2714.94	2500.79	2212.63	1905.32	1582.25	1294.35	1035.85
235.0	2858.52	2840.13	2725.70	2504.99	2235.20	1926.57	1602.20	1310.63	1050.29
240.0	2858.52	2850.89	2743.29	2535.43	2255.94	1947.57	1620.57	1321.12	1060.52
245.0	2858.52	2860.86	2753.00	2554.07	2277.19	1966.46	1640.25	1339.76	1077.05
250.0	2858.52	2867.16	2759.03	2561.94	2296.61	1989.03	1662.82	1358.65	1090.96
255.0	2858.52	2867.16	2773.73	2580.05	2314.20	2006.88	1686.18	1375.19	1103.82
260.0	2858.52	2871.62	2786.06	2587.92	2334.93	2021.84	1698.51	1384.11	1115.37
265.0	2858.52	2874.24	2796.56	2606.82	2345.43	2040.47	1714.78	1401.69	1125.08
270.0	2858.52	2880.02	2797.87	2611.02	2369.05	2049.13	1732.37	1418.75	1136.10
275.0	2858.52	2885.53	2800.24	2635.69	2372.46	2063.30	1730.53	1417.96	1138.20
280.0	2858.52	2894.45	2818.08	2641.72	2393.72	2075.11	1742.08	1424.79	1143.98
285.0	2858.52	2893.40	2827.27	2650.12	2397.13	2079.31	1752.84	1428.99	1145.29

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Intensity data(cd)									
C/γ(°)	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
290.0	2858.52	2902.59	2829.63	2662.19	2407.89	2092.43	1751.00	1429.77	1148.96
295.0	2858.52	2899.18	2829.63	2672.69	2407.89	2090.60	1757.30	1432.40	1150.80
300.0	2858.52	2900.49	2837.50	2668.23	2411.30	2092.17	1765.43	1437.38	1148.96
305.0	2858.52	2904.95	2837.50	2667.18	2411.56	2091.12	1760.71	1435.81	1148.70
310.0	2858.52	2891.56	2829.37	2660.88	2398.18	2092.17	1750.74	1431.09	1144.76
315.0	2858.52	2896.55	2834.62	2663.50	2393.98	2084.04	1752.84	1421.38	1136.89
320.0	2858.52	2895.76	2828.58	2657.99	2395.03	2075.64	1736.57	1409.83	1130.33
325.0	2858.52	2898.65	2825.69	2647.76	2394.50	2067.77	1727.12	1400.91	1121.41
330.0	2858.52	2892.35	2825.43	2646.97	2379.28	2050.18	1716.10	1389.62	1113.53
335.0	2858.52	2891.04	2828.32	2636.47	2372.72	2034.44	1702.45	1384.37	1104.87
340.0	2858.52	2890.25	2809.42	2620.20	2349.63	2023.94	1684.34	1369.94	1090.70
345.0	2858.52	2883.69	2799.19	2608.13	2333.62	2009.77	1672.01	1356.82	1085.19
350.0	2858.52	2887.63	2786.85	2586.61	2310.52	1983.00	1653.90	1345.01	1073.12
355.0	2858.52	2878.97	2775.57	2588.45	2292.41	1961.21	1630.80	1327.16	1058.68
360.0	2858.52	2872.41	2773.47	2565.35	2265.65	1943.63	1611.12	1307.74	1044.51

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Intensity data(cd)

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C/γ(°)	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5
0.0	823.54	642.72	503.10	393.92	310.20	246.69	199.98	162.45	132.53
5.0	811.46	635.63	495.49	388.94	306.53	244.59	197.35	161.14	132.01
10.0	795.98	625.92	488.40	385.26	301.28	241.71	196.57	159.56	130.70
15.0	784.96	615.68	482.36	377.65	298.13	239.35	193.94	158.25	129.38
20.0	775.25	607.81	474.23	371.62	294.98	236.72	191.32	156.15	128.07
25.0	764.23	598.36	467.93	366.89	290.52	234.36	188.43	154.05	126.23
30.0	754.78	589.70	459.79	363.48	285.80	231.21	187.64	152.48	125.45
35.0	744.28	583.67	452.97	356.66	281.60	227.54	185.81	150.90	123.08
40.0	735.62	571.59	449.56	350.88	279.24	224.39	182.66	149.33	121.25
45.0	721.71	563.46	441.16	345.37	275.04	221.50	179.77	147.75	119.67
50.0	710.95	554.27	433.03	341.70	270.31	218.09	178.46	146.18	118.62
55.0	699.40	546.93	425.68	335.40	266.64	215.46	176.88	144.87	116.52
60.0	690.74	536.17	421.74	330.15	265.59	213.63	175.57	143.82	115.74
65.0	680.77	531.70	416.49	327.79	260.87	211.53	172.42	141.98	114.42
70.0	675.00	525.14	412.29	324.38	259.29	210.48	170.85	140.41	112.32
75.0	666.34	522.26	408.36	321.23	256.14	207.85	169.54	138.57	111.27
80.0	661.09	516.22	404.68	318.34	253.52	205.23	167.96	136.73	109.44
85.0	653.21	512.28	401.01	314.93	250.37	203.39	165.60	136.47	108.39
90.0	646.13	507.30	396.55	313.09	249.58	201.82	164.81	134.63	107.08
95.0	644.82	501.79	394.71	310.20	246.96	199.98	163.50	133.84	107.08
100.0	639.04	498.11	390.51	308.10	244.59	198.93	161.66	133.06	105.76
105.0	637.47	494.96	388.67	305.74	243.02	197.62	160.88	132.01	104.71
110.0	630.64	492.60	387.10	304.17	243.28	196.57	160.61	130.96	103.93
115.0	629.86	491.29	385.79	303.38	242.76	196.31	159.83	130.17	103.14
120.0	628.28	490.76	385.52	303.12	241.18	196.31	159.56	129.91	102.61
125.0	628.28	491.29	385.79	302.33	240.92	195.78	159.04	129.65	102.35
130.0	632.48	492.86	386.84	303.91	241.97	194.73	158.51	129.65	102.35
135.0	632.74	493.39	387.36	304.96	242.76	195.78	159.30	129.38	103.14
140.0	633.53	495.49	389.20	307.58	244.59	196.31	159.56	129.12	102.61
145.0	637.20	499.42	393.14	309.68	245.91	197.62	159.04	130.17	103.40
150.0	646.39	503.36	395.76	311.52	247.74	198.93	160.61	130.70	104.19
155.0	649.01	505.46	402.06	316.50	249.84	200.50	161.93	132.01	105.24
160.0	658.20	513.33	405.73	320.44	252.73	202.34	164.29	132.79	106.55
165.0	668.43	522.52	409.67	323.06	255.62	205.75	165.34	133.32	107.86
170.0	677.62	530.13	414.39	327.00	260.34	207.59	167.44	135.42	109.70
175.0	689.43	540.63	423.32	331.99	263.23	210.48	169.80	137.52	109.96
180.0	697.04	548.24	430.66	338.02	266.38	213.63	171.64	139.36	111.27
185.0	709.38	556.37	438.27	343.80	272.41	215.99	174.26	140.41	112.85
190.0	719.35	566.61	443.79	351.41	276.61	218.88	175.57	141.72	115.21
195.0	730.11	579.47	453.50	356.13	281.60	223.34	178.72	144.08	116.00
200.0	744.02	585.77	459.27	362.43	284.22	226.75	180.30	144.87	117.31
205.0	758.45	595.74	466.88	368.47	290.26	229.90	183.18	146.97	118.62
210.0	771.57	603.35	472.92	374.76	295.25	233.05	185.28	149.07	120.98
215.0	786.53	617.00	482.89	380.80	300.23	236.98	188.96	150.64	121.25
220.0	796.24	629.07	493.65	385.79	304.96	241.44	191.84	152.74	122.30
225.0	811.46	636.94	500.21	393.14	309.42	245.64	194.99	155.36	124.92
230.0	822.22	648.49	509.66	399.96	313.35	249.06	197.35	157.99	125.97
235.0	836.66	661.61	518.32	407.04	319.65	251.68	200.50	159.30	127.81
240.0	850.31	670.27	525.93	412.56	323.59	255.35	203.13	161.93	129.38
245.0	860.54	678.67	530.65	417.02	328.05	258.50	205.23	162.71	130.43
250.0	869.99	683.66	539.05	421.22	331.99	261.65	207.85	164.55	132.01
255.0	879.44	692.05	541.94	424.89	334.61	263.49	209.43	166.65	133.06
260.0	887.31	698.88	547.45	429.61	336.71	266.90	210.21	166.91	134.37
265.0	895.45	705.96	552.17	432.24	338.55	267.43	212.58	169.01	135.16
270.0	899.38	709.11	556.37	435.13	341.70	270.31	214.15	169.27	135.42
275.0	908.30	713.31	559.52	437.23	341.70	270.58	213.63	170.32	136.47
280.0	908.30	717.25	562.41	438.80	343.80	270.58	214.68	171.11	136.99
285.0	910.14	716.20	564.25	439.06	343.53	270.31	214.68	171.11	137.52

Ten-Lighting Technology Co.Ltd Ten-Lighting Technology Co.Ltd LED Downlights

Intensity data(cd) Page: 10 Total:16

C/γ(°)	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5
290.0	912.24	718.30	561.62	439.06	343.53	270.84	214.15	170.32	137.26
295.0	911.98	718.56	559.52	436.18	342.22	269.26	213.89	171.64	137.52
300.0	909.88	715.15	557.95	434.60	341.17	267.69	214.15	170.85	137.78
305.0	907.52	710.16	554.80	434.08	339.34	267.16	212.84	170.59	136.99
310.0	903.58	708.06	553.75	433.55	336.97	267.43	212.05	169.80	136.99
315.0	900.96	704.91	549.81	429.35	336.19	264.80	211.00	169.27	135.94
320.0	894.13	698.35	545.88	425.94	333.30	263.49	209.95	169.27	136.21
325.0	888.10	695.47	542.99	423.84	330.41	261.65	208.64	168.49	136.73
330.0	876.02	689.43	539.05	420.95	328.57	259.82	207.59	167.17	135.68
335.0	872.61	683.39	533.80	416.23	326.21	257.98	207.59	166.39	135.68
340.0	863.95	675.00	527.77	411.77	323.33	257.45	206.02	165.60	135.16
345.0	854.50	667.39	521.47	408.62	319.91	253.52	204.18	165.07	134.63
350.0	840.33	660.82	517.27	405.73	317.81	252.47	202.87	164.81	134.11
355.0	831.67	651.90	511.50	398.65	314.14	249.84	201.55	163.50	133.32
360.0	823.54	642.72	503.10	393.92	310.20	246.69	199.98	162.45	132.53

Ten-Lighting Technology Co.Ltd Ten-Lighting Technology Co.Ltd LED Downlights

Intensity data(cd)

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C/γ(°)	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0
0.0	108.13	86.61	67.71	49.86	38.05	29.92	24.14	18.63	13.91
5.0	107.34	86.08	65.87	48.81	38.05	29.66	23.88	18.11	13.91
10.0	107.08	84.51	64.04	48.81	38.05	29.39	22.83	17.85	14.17
15.0	106.03	81.88	62.72	47.76	37.79	29.13	22.04	17.58	13.91
20.0	103.93	79.52	61.41	47.50	37.27	27.82	21.26	17.32	13.65
25.0	100.78	77.68	59.84	46.98	35.95	27.03	21.26	17.06	13.12
30.0	98.94	76.63	59.57	45.14	34.12	26.51	21.26	17.06	12.33
35.0	96.84	75.32	59.05	43.30	33.07	26.51	21.00	16.80	12.07
40.0	95.53	74.27	56.42	41.73	32.54	26.24	20.73	15.48	11.55
45.0	93.95	73.75	54.33	41.47	32.54	26.24	20.73	14.70	11.28
50.0	92.90	71.65	52.75	40.94	32.28	25.46	19.42	14.96	11.02
55.0	91.33	69.28	52.49	40.68	32.02	24.93	18.90	14.96	11.28
60.0	89.23	67.18	52.23	40.42	31.76	23.09	18.63	14.70	11.28
65.0	87.13	66.13	51.70	40.68	30.71	22.83	18.37	14.96	10.76
70.0	85.03	65.87	50.91	39.89	29.66	22.57	18.37	14.43	10.24
75.0	84.51	65.87	50.91	38.05	29.13	22.83	18.37	14.70	10.24
80.0	84.24	65.35	49.86	36.74	28.87	23.09	18.11	13.91	10.24
85.0	83.72	64.82	47.76	36.48	28.61	22.83	18.11	13.12	10.24
90.0	83.72	63.77	46.45	35.95	28.61	22.83	17.58	12.86	9.97
95.0	84.51	62.20	45.93	35.69	28.61	22.57	16.80	12.86	9.71
100.0	82.41	61.41	46.19	35.69	28.34	21.52	16.53	13.12	9.97
105.0	80.04	61.15	46.45	36.22	28.08	21.00	16.53	12.86	9.97
110.0	78.47	60.36	46.45	36.48	27.03	20.47	16.80	12.86	9.71
115.0	77.68	60.62	47.50	36.48	26.24	20.47	16.53	13.38	9.19
120.0	77.94	60.62	47.24	35.43	26.51	20.47	16.53	13.12	9.19
125.0	77.94	60.62	46.98	34.90	26.77	21.00	16.53	12.60	9.45
130.0	77.94	60.36	45.66	34.38	27.03	21.26	16.53	12.07	9.19
135.0	78.73	60.62	44.61	34.12	27.29	21.52	16.80	12.07	9.19
140.0	80.31	60.36	44.35	34.12	27.56	21.78	16.01	12.07	9.45
145.0	81.36	60.89	44.61	34.64	27.56	21.78	16.01	12.33	9.45
150.0	81.62	60.89	45.40	35.43	27.29	21.00	16.53	12.60	9.45
155.0	81.09	61.67	46.71	35.43	27.82	20.73	16.53	13.12	9.71
160.0	82.14	62.46	48.03	36.48	27.82	20.73	16.27	13.38	9.97
165.0	83.72	63.25	48.29	37.53	27.82	21.00	16.80	13.65	10.24
170.0	84.77	64.30	49.08	37.79	27.82	21.26	17.06	13.38	9.97
175.0	86.08	65.61	50.13	37.27	28.61	22.31	17.85	13.91	9.97
180.0	86.87	67.45	50.91	37.27	29.13	23.09	17.85	13.65	10.24
185.0	88.70	68.76	51.44	37.53	29.13	23.62	18.63	13.65	10.50
190.0	90.54	70.33	51.70	38.32	29.92	23.62	18.90	13.65	10.50
195.0	92.64	71.65	52.75	39.63	30.44	23.88	18.63	14.17	11.02
200.0	93.43	72.43	54.33	40.68	31.49	24.41	18.37	14.70	11.55
205.0	94.48	73.48	55.11	41.73	32.02	24.41	18.37	14.96	11.81
210.0	96.32	74.80	55.90	42.25	32.81	24.67	18.90	15.22	12.07
215.0	97.63	75.85	56.69	42.78	33.33	24.93	19.42	15.22	12.07
220.0	99.20	77.16	58.26	44.09	33.33	25.46	19.95	15.48	12.33
225.0	99.20	78.47	59.84	45.40	33.07	25.72	20.47	16.27	12.33
230.0	100.51	78.99	61.41	46.19	33.59	25.98	21.00	16.01	12.07
235.0	101.83	80.83	62.72	46.45	34.90	26.24	20.73	15.75	12.33
240.0	103.40	82.14	63.51	47.24	35.43	26.51	20.21	15.75	12.60
245.0	104.71	83.19	64.30	48.03	35.69	27.03	19.95	16.01	12.60
250.0	105.24	84.77	65.09	48.81	35.95	27.29	20.73	16.27	12.07
255.0	106.55	85.56	66.40	49.08	36.74	27.56	21.52	16.27	11.81
260.0	107.60	86.34	67.18	49.60	37.27	27.82	21.78	16.53	12.07
265.0	108.13	86.87	67.71	50.65	37.27	28.08	22.31	17.32	12.07
270.0	109.18	87.13	68.23	51.70	38.05	28.61	22.83	17.85	12.33
275.0	109.70	88.18	69.28	52.49	38.58	29.13	23.36	18.11	12.60
280.0	110.22	88.18	70.33	52.49	39.37	29.13	23.36	18.37	13.12
285.0	110.49	88.97	70.60	53.54	39.63	29.39	23.62	18.37	13.65

Ten-Lighting Technology Co.Ltd Ten-Lighting Technology Co.Ltd LED Downlights

Intensity data(cd) Page: 12 Total:16

C/γ(°)	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0
290.0	110.75	88.97	70.60	53.80	40.42	30.44	23.62	18.63	14.17
295.0	111.01	89.75	70.60	54.33	40.68	31.49	23.62	18.90	14.96
300.0	111.01	90.02	70.86	54.59	41.47	31.76	23.88	19.16	15.48
305.0	111.01	89.75	71.12	54.85	41.73	31.49	24.67	19.42	15.75
310.0	111.01	89.23	70.86	55.37	41.73	31.23	25.19	20.21	15.75
315.0	110.75	89.49	70.86	55.37	41.47	31.76	25.46	20.47	15.22
320.0	110.75	89.49	71.12	54.85	41.73	32.02	25.46	20.21	15.22
325.0	110.75	89.75	71.38	54.85	41.73	32.02	25.19	19.68	15.75
330.0	110.49	89.75	70.60	54.85	41.73	32.28	24.67	19.16	15.48
335.0	110.22	89.49	70.33	54.33	41.47	32.54	24.14	19.16	15.48
340.0	110.22	89.23	69.55	53.80	41.20	31.49	24.41	19.16	15.48
345.0	110.22	88.44	69.55	53.80	40.68	30.44	24.41	19.16	15.75
350.0	109.70	87.92	69.02	53.54	39.10	30.18	24.14	19.42	15.48
355.0	108.65	87.13	68.76	51.44	38.05	30.18	24.14	19.42	14.17
360.0	108.13	86.61	67.71	49.86	38.05	29.92	24.14	18.63	13.91

Ten-Lighting Technology Co.Ltd Ten-Lighting Technology Co.Ltd LED Downlights

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Intensity data(cd)									
C/γ(°)	67.5	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5
0.0	11.02	8.40	5.25	3.41	2.62	1.84	1.31	1.31	1.05
5.0	10.76	8.40	5.25	3.41	2.62	2.10	1.31	1.05	1.05
10.0	10.50	7.61	4.99	3.41	2.36	1.84	1.31	0.79	1.05
15.0	10.24	7.61	5.25	3.41	2.36	1.84	1.31	1.31	1.05
20.0	9.97	7.09	4.99	3.41	2.36	1.57	1.31	1.31	0.79
25.0	9.19	6.82	4.72	3.41	2.10	1.84	1.57	1.31	0.79
30.0	8.92	7.09	4.46	3.15	2.36	2.10	1.31	1.05	0.79
35.0	9.19	6.82	4.20	3.15	2.36	2.10	1.57	1.05	0.79
40.0	9.19	6.56	4.20	2.89	2.36	1.84	1.31	1.05	0.52
45.0	8.66	6.04	4.20	3.15	2.36	1.57	1.31	1.05	0.79
50.0	8.40	6.04	3.94	2.89	2.10	1.57	1.31	1.05	0.79
55.0	8.66	6.04	3.67	2.89	1.84	1.57	1.05	1.05	0.79
60.0	8.14	5.77	3.67	2.89	1.84	1.57	1.05	0.79	0.79
65.0	7.61	5.77	3.41	2.62	2.10	1.57	1.05	0.79	0.52
70.0	7.61	5.77	3.67	2.36	2.10	1.31	1.05	0.52	0.52
75.0	7.87	5.51	3.41	2.62	2.10	1.31	1.31	0.79	0.79
80.0	7.87	5.25	3.41	2.36	1.84	1.31	1.31	0.79	0.79
85.0	7.61	4.99	3.15	2.36	1.57	1.31	1.31	0.79	0.79
90.0	7.87	4.72	3.15	2.62	1.57	1.31	1.31	0.79	0.79
95.0	7.87	4.99	3.15	2.62	1.84	1.31	1.31	0.52	0.79
100.0	7.35	5.25	3.41	2.36	1.84	1.31	1.05	0.52	0.52
105.0	7.09	4.99	3.41	2.10	1.84	1.31	1.05	0.79	0.79
110.0	6.82	4.99	3.41	2.10	1.84	1.31	1.05	1.05	0.79
115.0	7.09	4.72	3.15	2.10	1.84	1.57	1.05	0.79	0.79
120.0	6.82	4.99	2.89	2.36	1.84	1.31	1.05	0.79	0.79
125.0	6.82	4.72	3.15	2.62	1.84	1.57	1.31	0.79	0.52
130.0	7.09	4.99	3.41	2.62	2.10	1.31	1.31	0.79	0.52
135.0	7.09	4.99	3.41	2.36	2.10	1.31	1.31	0.79	0.52
140.0	7.35	4.72	3.15	2.36	1.84	1.57	1.31	0.79	0.52
145.0	7.09	5.25	3.41	2.36	1.84	1.57	1.31	1.05	0.79
150.0	7.09	5.25	3.15	2.62	1.84	1.57	1.31	1.05	0.79
155.0	7.09	4.99	3.41	2.62	2.10	1.84	1.05	1.05	1.05
160.0	6.82	5.51	3.41	2.62	2.10	1.57	1.31	0.79	1.05
165.0	7.09	5.77	3.67	2.62	2.10	1.31	1.31	0.79	0.79
170.0	7.61	5.77	3.67	2.62	2.10	1.31	1.31	1.05	0.52
175.0	7.87	5.77	3.67	2.36	1.84	1.31	1.31	1.05	0.52
180.0	8.14	5.77	3.67	2.62	1.84	1.31	1.31	1.05	0.79
185.0	8.14	6.04	3.94	2.89	2.36	1.57	1.31	1.05	0.79
190.0	8.14	6.30	4.20	2.89	2.36	1.84	1.31	1.05	0.79
195.0	8.66	6.30	4.46	3.15	2.36	1.84	1.31	1.05	0.79
200.0	8.66	6.30	4.72	3.15	2.10	1.84	1.31	0.79	0.79
205.0	8.66	6.56	4.72	3.15	2.10	1.57	1.31	0.79	0.79
210.0	8.66	6.82	4.72	3.15	2.10	1.57	1.31	1.05	0.79
215.0	9.19	6.82	4.72	3.41	2.10	1.57	1.31	1.05	0.79
220.0	9.45	6.82	4.72	3.41	2.10	1.57	1.31	1.05	0.79
225.0	9.19	7.09	4.72	3.41	2.36	1.31	1.31	1.05	0.79
230.0	9.45	7.09	4.99	3.15	2.10	1.57	1.31	1.05	0.79
235.0	8.92	6.82	4.72	2.89	2.10	1.57	1.31	0.79	0.79
240.0	8.92	6.56	4.46	2.89	2.10	1.31	1.31	0.79	0.79
245.0	9.19	6.56	4.20	2.62	2.10	1.57	1.31	0.79	0.79
250.0	8.92	6.30	3.94	2.89	2.10	1.57	1.31	0.52	0.52
255.0	8.92	6.04	4.20	2.89	2.10	1.57	1.05	0.79	0.52
260.0	8.92	6.04	3.94	2.89	2.10	1.57	1.05	0.79	0.52
265.0	9.45	5.77	4.20	2.62	2.36	1.31	1.05	0.79	0.79
270.0	9.71	6.04	4.20	2.62	2.10	1.57	1.31	1.05	0.79
275.0	9.71	6.30	4.46	2.62	1.84	1.31	1.31	0.79	0.79
280.0	9.97	6.56	4.20	2.36	1.84	1.31	1.31	0.52	0.79
285.0	10.50	7.35	4.46	2.89	2.10	1.31	1.31	0.52	0.79

Ten-Lighting Technology Co.Ltd Ten-Lighting Technology Co.Ltd LED Downlights

Intensity data(cd)

Page: 14 Total:16

C/γ(°)	67.5	70.0	72.5	75.0	77.5	80.0	82.5	85.0	87.5
290.0	10.76	7.87	4.72	3.41	2.10	1.57	1.31	0.79	0.52
295.0	11.02	7.87	5.25	3.67	2.36	1.84	1.31	1.05	0.52
300.0	11.55	8.14	5.77	3.94	2.36	1.84	1.31	0.79	0.52
305.0	11.28	8.40	6.56	3.67	2.89	1.84	1.31	1.05	0.52
310.0	11.55	8.92	6.56	3.94	2.89	1.84	1.31	1.05	0.79
315.0	11.81	9.45	6.56	3.94	2.89	1.84	1.57	0.79	1.05
320.0	11.81	9.19	6.56	4.20	3.15	2.10	1.31	1.05	1.05
325.0	11.81	9.45	6.82	4.46	2.89	2.10	1.31	1.31	1.05
330.0	12.07	9.19	6.82	4.20	2.89	2.10	1.31	1.31	1.05
335.0	12.33	8.92	6.56	4.20	2.89	2.10	1.31	1.05	0.79
340.0	12.33	8.40	6.30	3.94	2.62	2.10	1.57	1.05	0.79
345.0	11.28	8.66	6.04	3.67	2.36	1.84	1.57	1.05	0.79
350.0	11.02	8.66	6.30	3.67	2.62	1.84	1.31	1.31	0.79
355.0	11.28	8.66	5.51	3.67	2.62	1.84	1.31	1.31	0.79
360.0	11.02	8.40	5.25	3.41	2.62	1.84	1.31	1.31	1.05

Intensity data(cd)

C/γ(°)	90.0
0.0	0.79
5.0	0.79
10.0	0.52
15.0	0.52
20.0	0.79
25.0	0.79
30.0	0.79
35.0	0.79
40.0	0.52
45.0	0.52
50.0	0.52
55.0	0.79
60.0	0.79
65.0	0.79
70.0	0.52
75.0	0.52
80.0	0.52
85.0	0.79
90.0	0.79
95.0	0.79
100.0	0.79
105.0	0.52
110.0	0.52
115.0	0.52
120.0	0.79
125.0	0.79
130.0	0.79
135.0	0.52
140.0	0.52
145.0	0.52
150.0	0.52
155.0	1.05
160.0	0.79
165.0	0.79
170.0	0.52
175.0	0.79
180.0	0.79
185.0	0.79
190.0	0.79
195.0	0.52
200.0	0.52
205.0	0.52
210.0	0.79
215.0	1.05
220.0	0.79
225.0	0.79
230.0	0.52
235.0	0.52
240.0	0.52
245.0	0.79
250.0	1.05
255.0	0.79
260.0	0.52
265.0	0.79
270.0	0.79
275.0	0.79
280.0	0.79
285.0	0.79

Intensity data(cd)

C/ γ ($^{\circ}$)	90.0
290.0	0.79
295.0	0.79
300.0	0.52
305.0	0.52
310.0	0.52
315.0	0.79
320.0	0.79
325.0	1.05
330.0	1.05
335.0	0.79
340.0	0.52
345.0	0.52
350.0	0.52
355.0	0.52
360.0	0.79