



Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:

LumCAT: LRG6-40K-HO

Luminaire:

Report No:

Ballast type:

Test No:

Voltage(V): 119.99

LampCAT:

Current(A): 0.1480

Lamp flux(lm): -1.0

Power (W): 17.52

Number of Lamps: 1

PF: 0.9873

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1654.85, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 94.46

Central intensity(cd): 2732.600, Maximum intensity(cd): 2775.616

Angle of maximum intensity: C=90.0 γ =5.0

Beam Angle(50%Imax): [C0/180]Total=41.6

[C90/270]Total=41.5

Field angle(10%Imax): [C0/180]Total=75.1

[C90/270]Total=75.2

Maximum s/h(1/2): C0_180=0.69 C90_270=0.72

Maximum s/h(1/4): C0_180=0.72 C90_270=0.75

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 0.11%

Down flux rate of LUM(%): 99.89%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.915%

Equipment: GMS-3000
Temperature(°C): 25

Date:
Humidity(%): 59%

Operator: jarvis

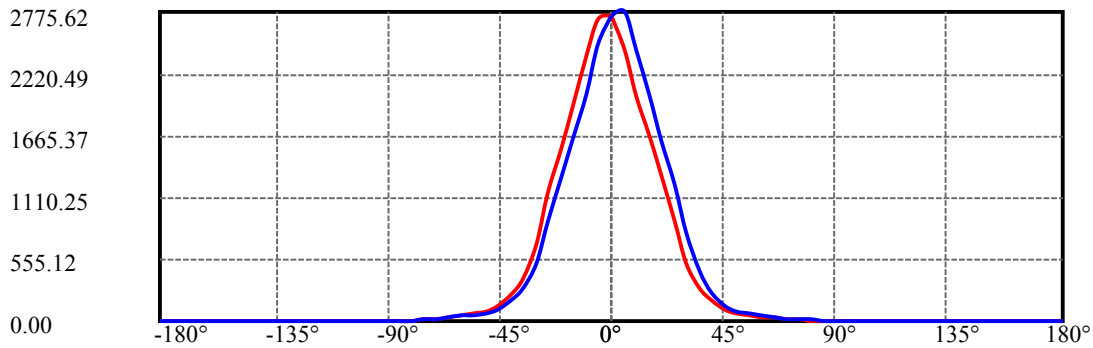
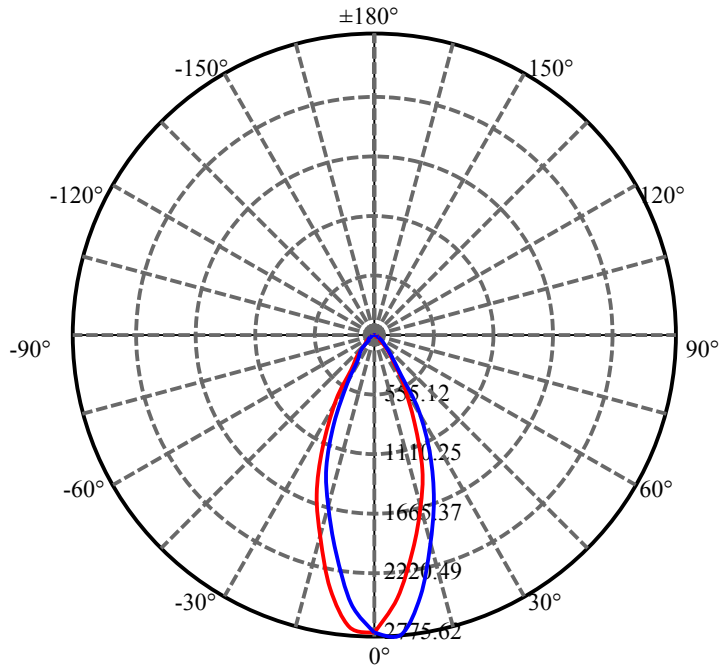
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2732.600	0.000	0	0.00%	0.00%
5.0	2580.794	63.520	63.52	0.00%	3.84%
10.0	2203.000	171.131	234.651	0.00%	14.18%
15.0	1794.651	237.138	471.789	0.00%	28.51%
20.0	1429.466	265.713	737.502	0.00%	44.57%
25.0	1029.695	257.921	995.423	0.00%	60.15%
30.0	631.330	210.204	1205.627	0.00%	72.85%
35.0	356.979	145.536	1351.162	0.00%	81.65%
40.0	220.184	96.295	1447.458	0.00%	87.47%
45.0	120.385	63.059	1510.517	0.00%	91.28%
50.0	76.330	39.749	1550.266	0.00%	93.68%
55.0	59.303	29.491	1579.757	0.00%	95.46%
60.0	44.671	24.033	1603.79	0.00%	96.91%
65.0	32.492	18.758	1622.548	0.00%	98.05%
70.0	18.964	13.029	1635.577	0.00%	98.84%
75.0	12.079	8.114	1643.692	0.00%	99.33%
80.0	7.933	5.355	1649.046	0.00%	99.65%
85.0	3.371	3.072	1652.118	0.00%	99.83%
90.0	0.072	0.943	1653.06	0.00%	99.89%
95.0	0.014	0.024	1653.084	0.00%	99.89%
100.0	0.014	0.008	1653.092	0.00%	99.89%
105.0	0.014	0.008	1653.099	0.00%	99.89%
110.0	0.014	0.008	1653.107	0.00%	99.89%
115.0	0.029	0.011	1653.118	0.00%	99.90%
120.0	0.072	0.024	1653.142	0.00%	99.90%
125.0	0.072	0.033	1653.175	0.00%	99.90%
130.0	0.129	0.044	1653.219	0.00%	99.90%
135.0	0.144	0.055	1653.274	0.00%	99.90%
140.0	0.301	0.082	1653.357	0.00%	99.91%
145.0	0.560	0.144	1653.5	0.00%	99.92%
150.0	0.803	0.201	1653.701	0.00%	99.93%
155.0	1.162	0.249	1653.95	0.00%	99.95%
160.0	1.435	0.272	1654.222	0.00%	99.96%
165.0	1.564	0.247	1654.469	0.00%	99.98%
170.0	1.779	0.198	1654.668	0.00%	99.99%
175.0	1.951	0.133	1654.801	0.00%	100.00%
180.0	2.025	0.048	1654.849	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1205.63	N.A.	72.85%
0-40	1447.46	N.A.	87.47%
0-60	1603.79	N.A.	96.91%
0-90	1653.06	N.A.	99.89%
0-120	1653.14	N.A.	99.90%
0-180	1654.85	N.A.	100.00%
60-90	49.27	N.A.	2.98%
90-120	0.08	N.A.	0.00%
90-130	0.16	N.A.	0.01%
90-150	0.64	N.A.	0.04%
90-180	1.74	N.A.	0.11%
0-34.06	1323.88	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	234.65
10-20	502.85
20-30	468.12
30-40	241.83
40-50	102.81
50-60	53.52
60-70	31.79
70-80	13.47
80-90	4.01
90-100	0.03
100-110	0.02
110-120	0.04
120-130	0.08
130-140	0.14
140-150	0.34
150-160	0.52
160-170	0.45
170-180	0.13



C0/C180: —

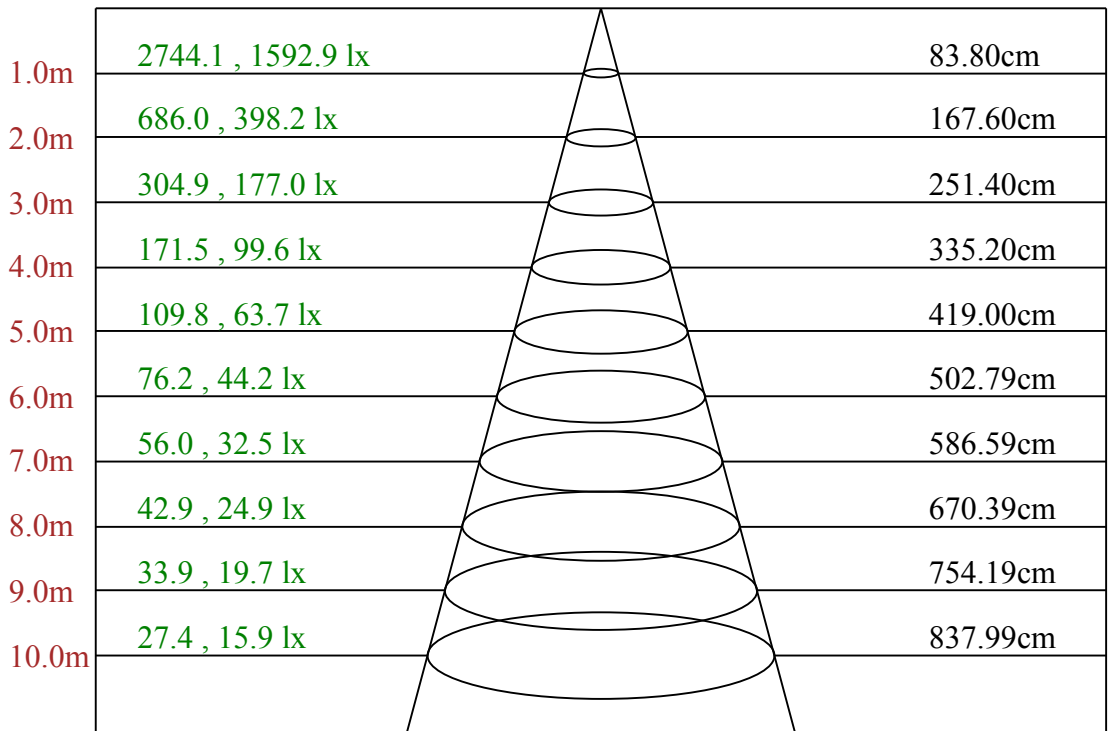
C90/C270: —

Field angle(10%Imax):C0/180Left:39.1 Right:36.0

:C90/270Left:35.7 Right:39.5

Beam Angle(50%Imax):C0/180Left:22.3 Right:19.3

:C90/270Left:18.6 Right:22.9



Max , Ave Beam angle of C90 plane 45.47

LRG6-40K-HO

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2732.60	2422.61	2008.55	1654.86	1316.31	899.27	513.67	294.71	187.98
22.5	2732.60	2432.25	2020.26	1644.76	1289.69	870.12	506.10	286.44	183.62
45.0	2732.60	2432.94	2016.13	1645.68	1273.85	861.86	504.95	296.77	184.08
67.5	2732.60	2438.91	2016.36	1646.14	1291.06	886.19	525.84	301.36	184.31
90.0	2732.60	2775.62	2436.15	2011.54	1615.61	1218.31	796.44	446.65	259.82
112.5	2732.60	2743.02	2414.81	1991.57	1605.74	1228.86	809.53	468.00	264.64
135.0	2732.60	2728.56	2383.82	1958.06	1603.67	1209.13	797.13	470.06	265.79
157.5	2732.60	2718.92	2386.12	1951.86	1564.88	1173.32	779.00	429.67	252.25
180.0	2732.60	2704.69	2375.79	1937.17	1552.26	1147.15	695.68	384.91	247.88
202.5	2732.60	2706.99	2369.36	1905.04	1510.26	1109.51	673.19	363.56	241.46
225.0	2732.60	2705.61	2385.66	1899.53	1489.37	1080.13	658.73	369.07	240.77
247.5	2732.60	2706.30	2377.85	1903.66	1525.64	1100.10	665.85	374.58	240.54
270.0	2732.60	2477.70	2034.95	1631.45	1297.26	894.68	511.61	292.41	191.42
292.5	2732.60	2445.33	2015.21	1639.71	1313.79	928.42	543.97	307.10	194.18
315.0	2732.60	2437.07	2001.44	1640.40	1313.56	943.57	565.31	318.35	195.32
337.5	2732.60	2416.18	2005.57	1653.02	1308.51	924.52	554.30	308.02	188.90
360.0	2732.60	2422.61	2008.55	1654.86	1316.31	899.27	513.67	294.71	187.98
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	105.35	69.09	54.63	41.09	28.92	15.38	11.25	7.12	2.75
22.5	105.58	68.17	53.94	40.63	28.23	15.15	11.02	6.89	2.53
45.0	104.20	67.71	53.48	39.94	27.77	14.46	10.79	6.66	2.30
67.5	106.04	67.48	53.02	39.94	27.77	14.23	10.56	6.43	2.07
90.0	138.63	85.38	64.04	48.20	36.27	22.72	12.85	8.95	4.36
112.5	137.25	82.17	63.81	48.20	35.35	22.03	12.85	8.49	3.90
135.0	134.27	80.56	63.58	47.28	35.12	22.03	12.62	8.72	3.90
157.5	132.66	81.48	62.89	47.05	35.58	22.03	12.62	8.72	3.90
180.0	134.96	81.48	62.89	47.51	35.58	22.03	12.62	8.49	4.13
202.5	134.27	81.71	62.89	47.74	35.58	21.81	12.62	8.72	4.13
225.0	134.50	83.78	63.35	47.97	36.04	22.95	13.08	8.95	4.36
247.5	138.40	87.91	63.81	48.89	36.95	23.41	13.08	9.18	4.59
270.0	106.50	71.84	57.61	43.38	30.99	16.76	12.17	7.57	2.98
292.5	105.58	71.38	57.38	42.92	30.07	16.53	11.94	7.57	2.75
315.0	104.89	71.15	56.00	42.23	30.30	16.30	11.48	7.35	2.75
337.5	103.06	70.00	55.54	41.77	29.38	15.61	11.71	7.12	2.53
360.0	105.35	69.09	54.63	41.09	28.92	15.38	11.25	7.12	2.75
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23
22.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
90.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
202.5	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.46	0.23	0.23	0.23	0.23	0.46	0.46	0.46	0.69
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.46
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.23
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.23	0.23

LRG6-40K-HO

Intensity data(cd)

Appendix Page: 7 Total:7

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.23	0.46	0.69	0.92	1.15	1.61	1.38	1.84	2.07
22.5	0.23	0.23	0.69	0.92	0.92	1.38	1.61	1.84	2.07
45.0	0.00	0.46	0.69	0.92	1.38	1.15	1.38	1.84	2.07
67.5	0.23	0.46	0.46	0.92	1.38	1.61	1.61	1.84	1.84
90.0	0.00	0.46	0.46	0.92	1.15	1.38	1.38	2.07	2.07
112.5	0.00	0.23	0.46	0.46	0.92	1.15	1.38	1.61	1.84
135.0	0.00	0.00	0.69	0.46	0.92	1.15	1.38	1.61	1.84
157.5	0.00	0.00	0.23	0.46	0.92	1.15	1.15	1.61	1.61
180.0	0.00	0.23	0.23	0.46	0.92	1.38	1.61	1.61	1.84
202.5	0.00	0.00	0.23	0.69	1.15	1.38	1.61	1.84	1.84
225.0	0.00	0.00	0.23	0.69	0.92	1.15	1.61	1.61	1.84
247.5	0.00	0.00	0.46	0.69	0.92	1.38	1.38	1.61	1.61
270.0	0.69	1.15	1.15	1.61	2.07	2.07	2.53	2.30	2.75
292.5	0.46	0.46	0.92	0.92	1.38	1.84	1.61	1.84	2.07
315.0	0.23	0.46	0.69	0.92	1.38	1.61	1.61	1.84	2.07
337.5	0.23	0.23	0.69	0.92	1.15	1.61	1.84	1.61	1.84
360.0	0.23	0.46	0.69	0.92	1.15	1.61	1.38	1.84	2.07
C/γ(°)	180.0								
0.0	2.03								
22.5	2.03								
45.0	2.03								
67.5	2.03								
90.0	2.03								
112.5	2.03								
135.0	2.03								
157.5	2.03								
180.0	2.03								
202.5	2.03								
225.0	2.03								
247.5	2.03								
270.0	2.03								
292.5	2.03								
315.0	2.03								
337.5	2.03								
360.0	2.03								