Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:
LumCAT: LRG6-27K-HO
Luminaire:
Report No:
Ballast type:

Test No:	Voltage(V): 119.95
LampCAT:	Current(A): 0.1480
Lamp flux(lm): -1.0	Power (W): 17.50
Number of Lamps: 1	PF: 0.9874
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1509.63, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 86.25
Central intensity(cd): 2492.803, Maximum intensity(cd): 2532.043
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%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2492.803	0.000	0	0.00%	0.00%
5.0	2354.318	57.946	57.946	0.00%	3.84%
10.0	2009.677	156.114	214.06	0.00%	14.18%
15.0	1637.162	216.328	430.388	0.00%	28.51%
20.0	1304.024	242.395	672.783	0.00%	44.57%
25.0	939.335	235.287	908.07	0.00%	60.15%
30.0	575.928	191.758	1099.828	0.00%	72.85%
35.0	325.653	132.764	1232.592	0.00%	81.65%
40.0	200.862	87.845	1320.437	0.00%	87.47%
45.0	109.820	57.525	1377.962	0.00%	91.28%
50.0	69.632	36.261	1414.223	0.00%	93.68%
55.0	54.099	26.903	1441.126	0.00%	95.46%
60.0	40.751	21.924	1463.051	0.00%	96.91%
65.0	29.640	17.112	1480.163	0.00%	98.05%
70.0	17.300	11.886	1492.048	0.00%	98.84%
75.0	11.019	7.402	1499.451	0.00%	99.33%
80.0	7.237	4.885	1504.335	0.00%	99.65%
85.0	3.075	2.802	1507.137	0.00%	99.84%
90.0	0.065	0.860	1507.997	0.00%	99.89%
95.0	0.013	0.021	1508.019	0.00%	99.89%
100.0	0.013	0.007	1508.026	0.00%	99.89%
105.0	0.013	0.007	1508.033	0.00%	99.89%
110.0	0.013	0.007	1508.04	0.00%	99.89%
115.0	0.026	0.010	1508.049	0.00%	99.90%
120.0	0.065	0.022	1508.072	0.00%	99.90%
125.0	0.065	0.030	1508.102	0.00%	99.90%
130.0	0.118	0.040	1508.142	0.00%	99.90%
135.0	0.131	0.050	1508.192	0.00%	99.90%
140.0	0.275	0.075	1508.267	0.00%	99.91%
145.0	0.510	0.131	1508.398	0.00%	99.92%
150.0	0.733	0.183	1508.581	0.00%	99.93%
155.0	1.060	0.227	1508.808	0.00%	99.95%
160.0	1.309	0.248	1509.057	0.00%	99.96%
165.0	1.426	0.225	1509.282	0.00%	99.98%
170.0	1.623	0.181	1509.463	0.00%	99.99%
175.0	1.780	0.122	1509.585	0.00%	100.00%
180.0	1.847	0.043	1509.628	0.00%	100.00%

Zonal flux distribution table

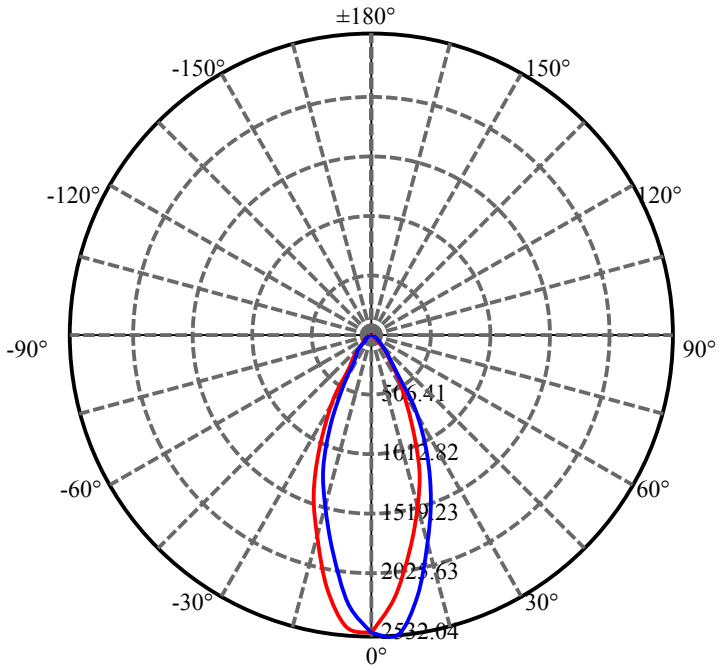
ZONAL LUMEN SUMMARY

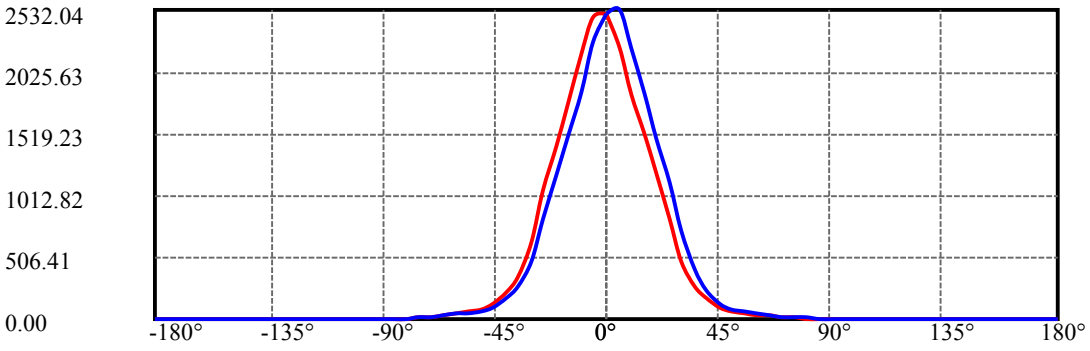
Zone	Lumens	%Lamp	%Fixt
0-30	1099.83	N.A.	72.85%
0-40	1320.44	N.A.	87.47%
0-60	1463.05	N.A.	96.91%
0-90	1508.00	N.A.	99.89%
0-120	1508.07	N.A.	99.90%
0-180	1509.63	N.A.	100.00%
60-90	44.95	N.A.	2.98%
90-120	0.07	N.A.	0.00%
90-130	0.14	N.A.	0.01%
90-150	0.58	N.A.	0.04%
90-180	1.59	N.A.	0.11%
0-34.06	1207.70	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	214.06
10-20	458.72
20-30	427.04
30-40	220.61
40-50	93.79
50-60	48.83
60-70	29.00
70-80	12.29
80-90	3.66
90-100	0.03
100-110	0.01
110-120	0.03
120-130	0.07
130-140	0.13
140-150	0.31
150-160	0.48
160-170	0.41
170-180	0.12

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

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

:C90/270Left:35.7 Right:39.5

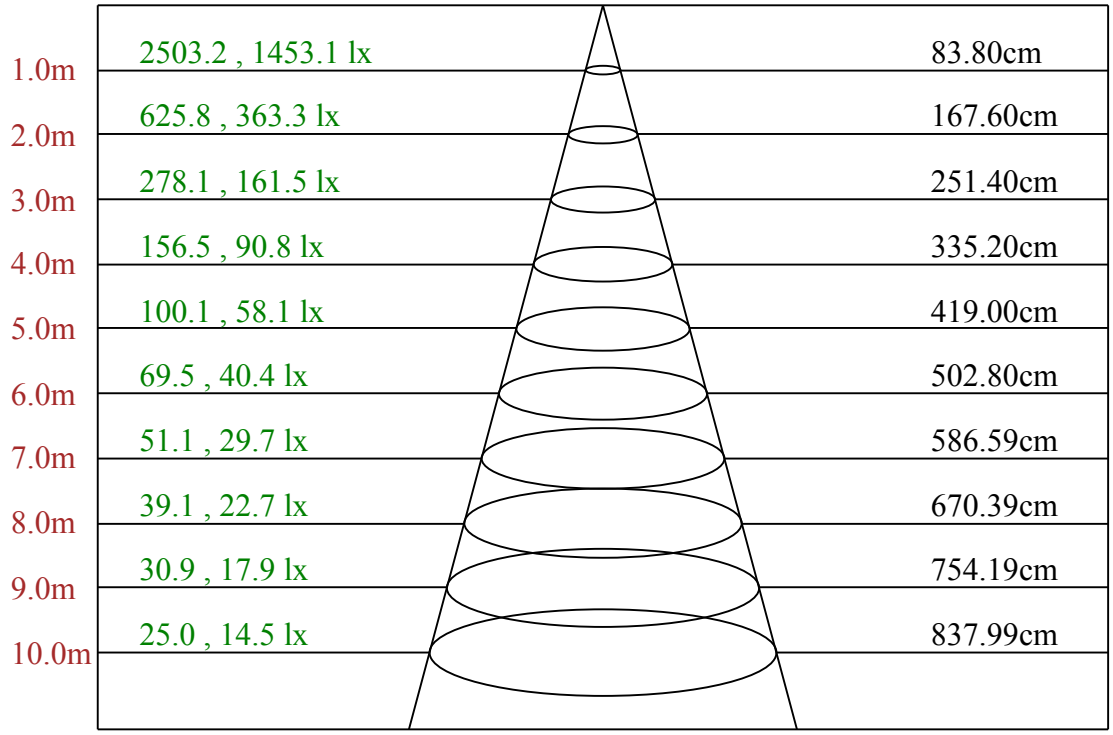
Beam Angle(50%Imax):C0/180Left:22.3 Right:19.3

:C90/270Left:18.6 Right:22.9

Equipment: GMS-3000 Date: Operator: jarvis

Temperature(°C): 25 Humidity(%): 59%

Lux distance Curve



Max , Ave

Beam angle of C90 plane 45.47

Equipment: GMS-3000 Date: Operator: jarvis
Temperature(°C): 25 Humidity(%): 59%

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	2492.80	2210.02	1832.29	1509.64	1200.80	820.35	468.59	268.85	171.48
22.5	2492.80	2218.81	1842.97	1500.42	1176.51	793.76	461.69	261.31	167.51
45.0	2492.80	2219.44	1839.20	1501.26	1162.06	786.23	460.64	270.73	167.92
67.5	2492.80	2224.88	1839.41	1501.68	1177.77	808.42	479.69	274.92	168.13
90.0	2492.80	2532.04	2222.37	1835.01	1473.83	1111.39	726.55	407.46	237.02
112.5	2492.80	2502.31	2202.90	1816.80	1464.83	1121.03	738.49	426.93	241.42
135.0	2492.80	2489.12	2174.63	1786.23	1462.94	1103.02	727.18	428.81	242.46
157.5	2492.80	2480.33	2176.72	1780.58	1427.56	1070.36	710.64	391.96	230.11
180.0	2492.80	2467.35	2167.30	1767.18	1416.04	1046.49	634.63	351.13	226.13
202.5	2492.80	2469.44	2161.44	1737.86	1377.73	1012.15	614.11	331.66	220.27
225.0	2492.80	2468.18	2176.31	1732.84	1358.67	985.35	600.92	336.69	219.64
247.5	2492.80	2468.81	2169.19	1736.61	1391.76	1003.56	607.41	341.71	219.43
270.0	2492.80	2260.27	1856.37	1488.28	1183.42	816.17	466.71	266.75	174.62
292.5	2492.80	2230.74	1838.36	1495.82	1198.50	846.95	496.23	280.15	177.14
315.0	2492.80	2223.21	1825.80	1496.45	1198.29	860.77	515.71	290.41	178.18
337.5	2492.80	2204.15	1829.57	1507.96	1193.68	843.39	505.66	280.99	172.32
360.0	2492.80	2210.02	1832.29	1509.64	1200.80	820.35	468.59	268.85	171.48

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	96.11	63.02	49.83	37.48	26.38	14.03	10.26	6.49	2.51
22.5	96.32	62.19	49.21	37.06	25.75	13.82	10.05	6.28	2.30
45.0	95.06	61.77	48.79	36.43	25.34	13.19	9.84	6.07	2.09
67.5	96.73	61.56	48.37	36.43	25.34	12.98	9.63	5.86	1.88
90.0	126.47	77.89	58.42	43.97	33.08	20.73	11.73	8.17	3.98
112.5	125.21	74.96	58.21	43.97	32.25	20.10	11.73	7.75	3.56
135.0	122.49	73.49	58.00	43.13	32.04	20.10	11.52	7.96	3.56
157.5	121.02	74.33	57.37	42.92	32.45	20.10	11.52	7.96	3.56
180.0	123.12	74.33	57.37	43.34	32.45	20.10	11.52	7.75	3.77
202.5	122.49	74.54	57.37	43.55	32.45	19.89	11.52	7.96	3.77
225.0	122.70	76.42	57.79	43.76	32.87	20.94	11.94	8.17	3.98
247.5	126.26	80.19	58.21	44.60	33.71	21.36	11.94	8.38	4.19
270.0	97.15	65.54	52.56	39.57	28.27	15.29	11.10	6.91	2.72
292.5	96.32	65.12	52.35	39.15	27.43	15.08	10.89	6.91	2.51
315.0	95.69	64.91	51.09	38.53	27.64	14.87	10.47	6.70	2.51
337.5	94.01	63.86	50.67	38.11	26.80	14.24	10.68	6.49	2.30
360.0	96.11	63.02	49.83	37.48	26.38	14.03	10.26	6.49	2.51

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	0.21	0.21	0.21
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	0.21	0.00
90.0	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
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	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
225.0	0.21	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	0.42	0.21	0.21	0.21	0.21	0.42	0.42	0.42	0.63
292.5	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.42
315.0	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.21
337.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.21	0.21

Intensity data(cd)

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.21	0.42	0.63	0.84	1.05	1.47	1.26	1.68	1.88
22.5	0.21	0.21	0.63	0.84	0.84	1.26	1.47	1.68	1.88
45.0	0.00	0.42	0.63	0.84	1.26	1.05	1.26	1.68	1.88
67.5	0.21	0.42	0.42	0.84	1.26	1.47	1.47	1.68	1.68
90.0	0.00	0.42	0.42	0.84	1.05	1.26	1.26	1.88	1.88
112.5	0.00	0.21	0.42	0.42	0.84	1.05	1.26	1.47	1.68
135.0	0.00	0.00	0.63	0.42	0.84	1.05	1.26	1.47	1.68
157.5	0.00	0.00	0.21	0.42	0.84	1.05	1.05	1.47	1.47
180.0	0.00	0.21	0.21	0.42	0.84	1.26	1.47	1.47	1.68
202.5	0.00	0.00	0.21	0.63	1.05	1.26	1.47	1.68	1.68
225.0	0.00	0.00	0.21	0.63	0.84	1.05	1.47	1.47	1.68
247.5	0.00	0.00	0.42	0.63	0.84	1.26	1.26	1.47	1.47
270.0	0.63	1.05	1.05	1.47	1.88	1.88	2.30	2.09	2.51
292.5	0.42	0.42	0.84	0.84	1.26	1.68	1.47	1.68	1.88
315.0	0.21	0.42	0.63	0.84	1.26	1.47	1.47	1.68	1.88
337.5	0.21	0.21	0.63	0.84	1.05	1.47	1.68	1.47	1.68
360.0	0.21	0.42	0.63	0.84	1.05	1.47	1.26	1.68	1.88

C/γ(°)	180.0
0.0	1.85
22.5	1.85
45.0	1.85
67.5	1.85
90.0	1.85
112.5	1.85
135.0	1.85
157.5	1.85
180.0	1.85
202.5	1.85
225.0	1.85
247.5	1.85
270.0	1.85
292.5	1.85
315.0	1.85
337.5	1.85
360.0	1.85