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LumCAT:
Luminaire: ASD-LRKTR-4D3650-PRM

Report No:	Voltage(V): 120.02
Test No:	Current(A): 0.3116
LampCAT:	Power (W): 37.1000
Lamp flux(lm): 5061.5	PF: 0.992
Number of Lamps: 1	Ballast type:
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 5061.45
Efficiency(%): 100.00%
Lumens(lm)/Power(W): 136.43
Central intensity(cd): 1998.240
Maximum intensity(cd): 1998.240
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=103.1
[C90/270]Total=104.0
Field angle(10%Imax): [C0/180]Total=157.7
[C90/270]Total=154.7
Maximum s/h(1/2): C0_180=1.20 C90_270=1.18
Maximum s/h(1/4): C0_180=1.71 C90_270=1.30
Up flux rate of lamp(%): 0.20%
Down flux rate of lamp(%): 99.80%
Up flux rate of LUM(%): 0.20%
Down flux rate of LUM(%): 99.80%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 81.014%

Zonal flux distribution table

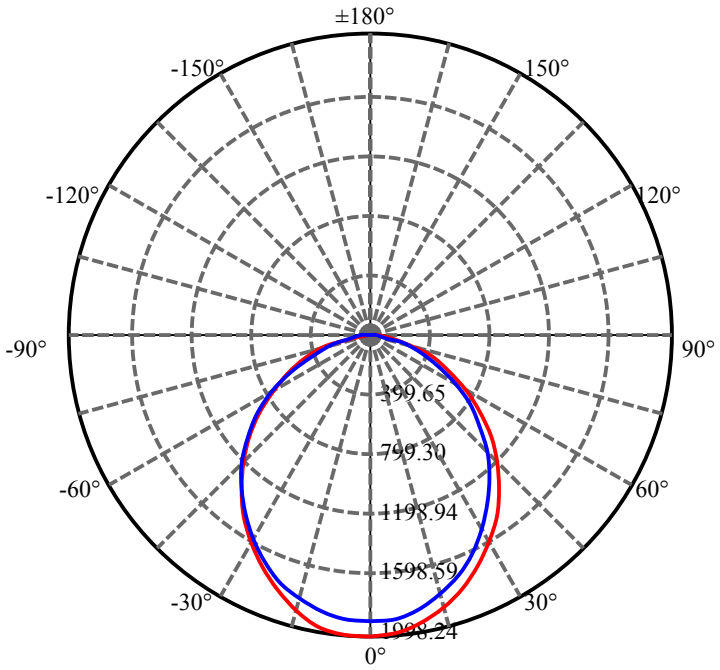
γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1959.716	.000	.000	.000%	.000%
5.0	1948.153	46.717	46.717	.923%	.923%
10.0	1912.513	138.108	184.826	2.729%	3.652%
15.0	1850.016	223.191	408.016	4.410%	8.061%
20.0	1770.358	298.370	706.386	5.895%	13.956%
25.0	1676.619	361.524	1067.910	7.143%	21.099%
30.0	1569.921	410.852	1478.762	8.117%	29.216%
35.0	1451.412	444.912	1923.675	8.790%	38.006%
40.0	1323.925	463.044	2386.719	9.148%	47.155%
45.0	1186.481	464.822	2851.541	9.184%	56.338%
50.0	1042.590	450.416	3301.957	8.899%	65.237%
55.0	894.562	421.201	3723.159	8.322%	73.559%
60.0	737.830	377.323	4100.481	7.455%	81.014%
65.0	579.231	320.180	4420.662	6.326%	87.340%
70.0	422.264	253.585	4674.247	5.010%	92.350%
75.0	280.278	183.633	4857.880	3.628%	95.978%
80.0	156.354	116.831	4974.710	2.308%	98.286%
85.0	60.070	58.807	5033.518	1.162%	99.448%
90.0	4.463	17.670	5051.188	.349%	99.797%
95.0	.979	1.490	5052.678	.029%	99.827%
100.0	1.083	.560	5053.238	.011%	99.838%
105.0	1.188	.608	5053.845	.012%	99.850%
110.0	1.292	.648	5054.493	.013%	99.863%
115.0	1.488	.704	5055.197	.014%	99.876%
120.0	1.605	.752	5055.949	.015%	99.891%
125.0	1.605	.742	5056.691	.015%	99.906%
130.0	1.683	.715	5057.406	.014%	99.920%
135.0	1.723	.688	5058.094	.014%	99.934%
140.0	1.749	.643	5058.736	.013%	99.946%
145.0	1.801	.592	5059.329	.012%	99.958%
150.0	1.853	.538	5059.867	.011%	99.969%
155.0	1.892	.474	5060.341	.009%	99.978%
160.0	1.892	.397	5060.738	.008%	99.986%
165.0	1.853	.309	5061.046	.006%	99.992%
170.0	1.892	.222	5061.269	.004%	99.996%
175.0	1.866	.134	5061.403	.003%	99.999%
180.0	1.931	.045	5061.448	.001%	100.000%

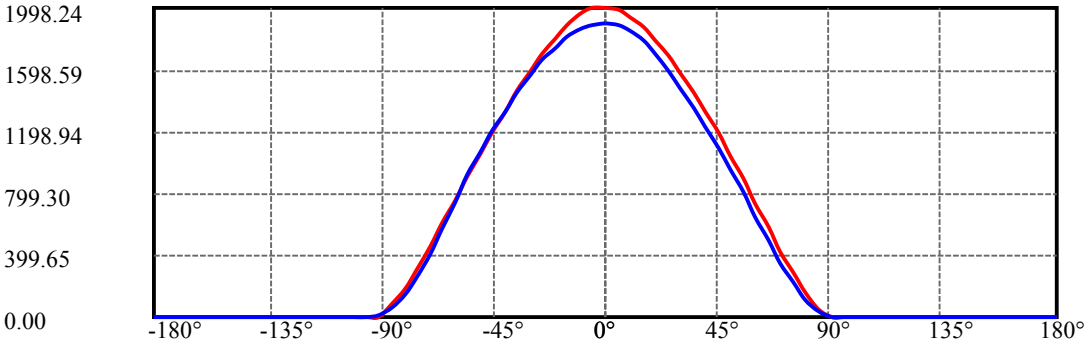
ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1478.76	29.22%	29.22%
0-40	2386.72	47.15%	47.15%
0-60	4100.48	81.01%	81.01%
0-90	5051.19	99.80%	99.80%
0-120	5055.95	99.89%	99.89%
0-180	5061.45	100.00%	100.00%
60-90	1328.03	26.24%	26.24%
90-120	22.43	0.44%	0.44%
90-130	23.89	0.47%	0.47%
90-150	26.35	0.52%	0.52%
90-180	27.89	0.55%	0.55%
0-59.32	4049.16	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	184.83
10-20	521.56
20-30	772.38
30-40	907.96
40-50	915.24
50-60	798.52
60-70	573.77
70-80	300.46
80-90	76.48
90-100	2.05
100-110	1.26
110-120	1.46
120-130	1.46
130-140	1.33
140-150	1.13
150-160	0.87
160-170	0.53
170-180	0.13





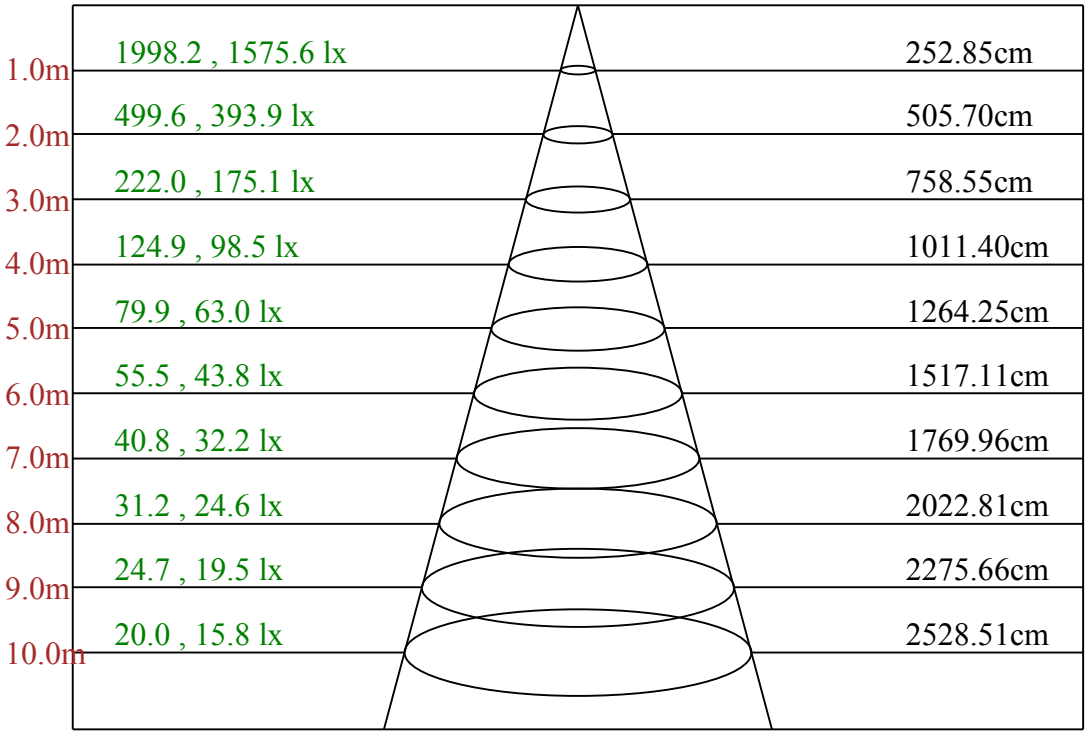
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:79.4 Right:78.3
:C90/270Left:78.2 Right:76.5

Beam Angle(50%Imax):C0/180Left:51.8 Right:51.4
:C90/270Left:53.9 Right:50.1

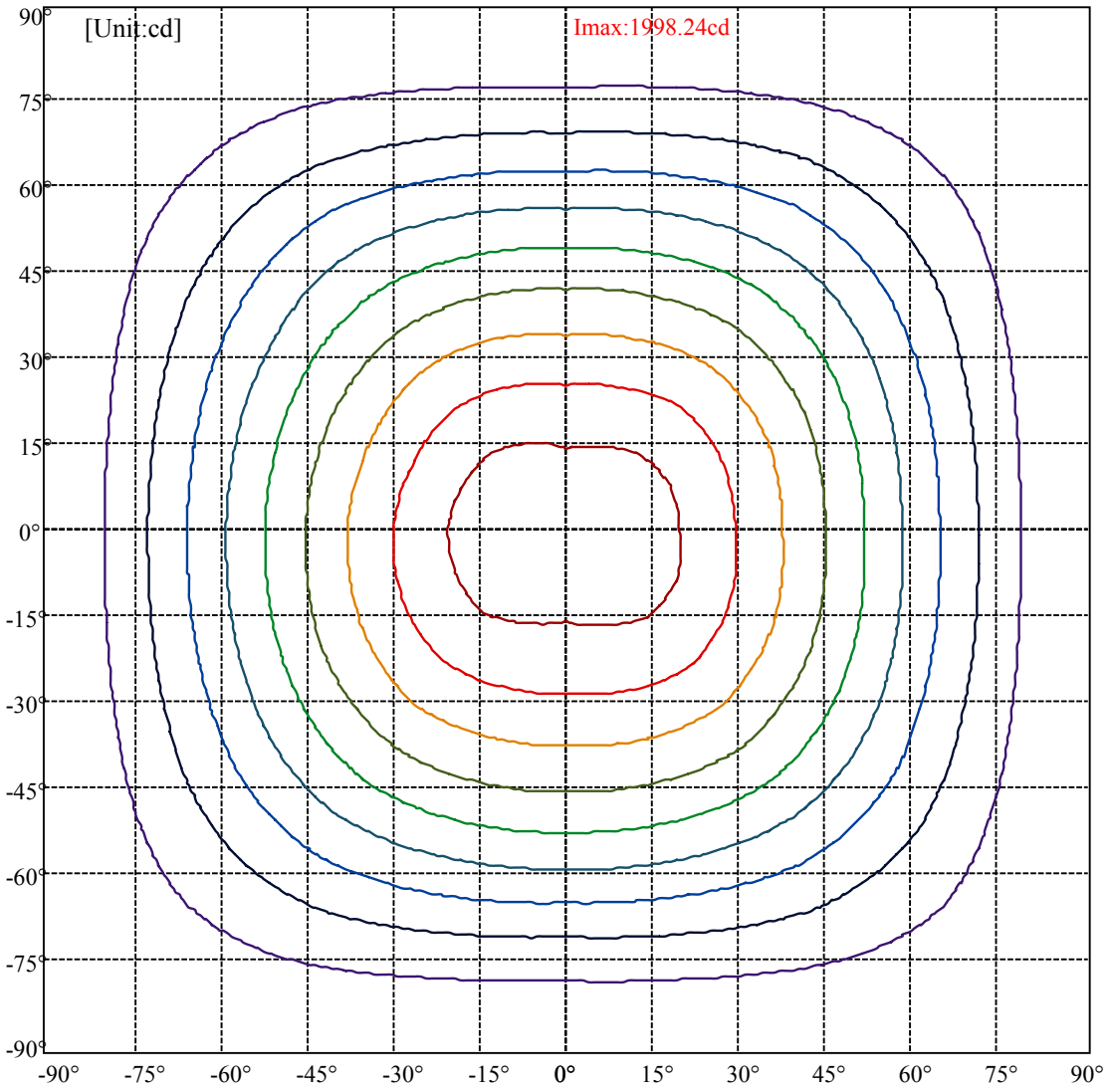
Lux distance Curve



Max , Ave

Beam angle of C0plane103.31

Equipment: GMS-3000 Date: Operator: Zac
Temperature(°C): 25 Humidity(%): 58%



(10%Imax) 199.707
(20%Imax) 399.414
(30%Imax) 599.121
(40%Imax) 798.828
(50%Imax) 998.535
(60%Imax) 1198.24
(70%Imax) 1397.95
(80%Imax) 1597.66
(90%Imax) 1797.36

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	1998.24	1979.87	1939.98	1874.63	1789.44	1689.21	1579.17	1457.65	1325.27
22.5	1997.82	1979.24	1937.27	1870.24	1788.19	1689.00	1578.96	1462.87	1332.16
45.0	1974.85	1950.63	1913.26	1848.11	1762.50	1671.88	1566.02	1444.70	1313.99
67.5	1916.81	1906.78	1865.23	1800.09	1714.27	1618.85	1510.90	1390.21	1263.26
90.0	1896.14	1888.83	1849.99	1781.09	1697.36	1594.00	1479.37	1357.84	1233.40
112.5	1927.46	1917.85	1880.27	1813.87	1727.01	1626.78	1510.69	1391.88	1261.17
135.0	1971.72	1963.58	1924.32	1853.12	1767.30	1662.07	1548.27	1424.24	1295.41
157.5	1994.69	1984.46	1946.25	1874.00	1781.50	1675.64	1562.05	1435.73	1301.47
180.0	1998.24	1992.39	1958.15	1891.54	1802.80	1701.32	1590.45	1465.79	1331.95
202.5	1997.82	1988.64	1954.81	1889.45	1805.31	1711.14	1608.61	1488.14	1357.22
225.0	1974.85	1968.17	1929.96	1869.41	1798.21	1710.93	1608.61	1496.70	1374.76
247.5	1916.81	1916.39	1885.90	1828.48	1761.46	1676.68	1578.55	1467.26	1345.11
270.0	1896.14	1885.70	1861.89	1808.44	1742.04	1662.69	1559.34	1446.17	1334.04
292.5	1927.46	1912.63	1885.07	1832.87	1767.72	1687.75	1590.45	1479.37	1355.96
315.0	1971.72	1956.06	1924.32	1874.63	1805.93	1725.75	1632.00	1514.86	1388.95
337.5	1994.69	1979.24	1943.53	1890.29	1814.70	1722.20	1615.30	1499.20	1368.70
360.0	1998.24	1979.87	1939.98	1874.63	1789.44	1689.21	1579.17	1457.65	1325.27

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	1189.76	1040.67	888.04	731.44	579.85	427.63	284.18	155.98	53.66
22.5	1193.10	1045.06	897.43	739.79	580.05	423.24	280.84	149.92	50.53
45.0	1177.44	1030.86	879.48	725.38	572.54	415.94	268.94	141.36	48.23
67.5	1122.31	980.75	836.67	682.78	522.42	376.26	242.84	129.25	42.39
90.0	1096.84	950.47	802.43	646.45	493.40	346.82	220.70	115.47	38.63
112.5	1115.63	973.86	830.62	674.64	515.95	366.87	239.29	126.53	42.18
135.0	1154.05	1012.27	867.37	719.53	563.77	405.08	266.43	145.12	50.32
157.5	1165.74	1021.25	872.38	720.79	572.54	420.74	277.50	150.96	55.54
180.0	1191.22	1051.11	903.07	751.90	603.65	454.35	313.41	184.79	82.69
202.5	1222.12	1075.96	925.20	776.12	618.26	463.33	321.56	189.18	79.55
225.0	1236.74	1091.41	947.34	784.89	624.32	462.92	314.46	179.15	73.71
247.5	1212.93	1078.67	922.91	761.29	597.59	425.96	277.50	156.60	66.40
270.0	1203.96	1061.55	916.85	750.85	573.79	403.62	263.30	148.25	60.14
292.5	1221.29	1074.08	932.93	766.72	595.09	429.51	280.00	158.48	65.77
315.0	1250.94	1108.53	952.14	790.11	629.75	467.30	311.95	180.41	74.13
337.5	1229.64	1084.94	938.15	782.59	624.74	466.67	321.56	190.22	77.26
360.0	1189.76	1040.67	888.04	731.44	579.85	427.63	284.18	155.98	53.66

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	1.25	1.04	1.25	1.46	1.46	1.67	1.67	1.67	1.46
22.5	1.46	1.67	2.09	2.09	1.88	1.88	1.67	1.88	1.88
45.0	1.25	1.25	1.46	1.25	1.88	2.09	2.09	1.88	1.88
67.5	1.46	0.84	1.04	1.04	1.46	1.46	1.88	1.67	1.67
90.0	1.46	1.04	0.84	1.25	1.04	1.25	1.46	1.67	1.67
112.5	1.25	1.04	0.84	0.84	1.04	1.46	1.46	1.67	1.88
135.0	1.04	1.25	1.25	1.25	1.25	2.09	1.88	1.88	1.88
157.5	1.67	1.04	1.46	1.67	1.67	2.09	1.88	2.09	2.09
180.0	6.06	0.63	0.84	1.04	1.04	1.04	1.46	1.46	1.67
202.5	7.52	1.25	1.04	1.46	1.46	1.25	1.88	1.67	1.88
225.0	7.93	0.84	0.84	0.84	1.25	1.46	1.46	1.46	1.67
247.5	7.31	0.63	0.63	0.84	0.84	1.04	1.25	1.25	1.25
270.0	6.47	0.63	0.42	0.84	0.63	0.84	1.25	1.04	1.25
292.5	8.35	0.63	0.84	0.63	0.84	1.04	1.25	1.25	1.46
315.0	8.56	0.63	1.04	0.84	1.46	1.67	1.46	1.46	1.67
337.5	8.35	1.25	1.46	1.67	1.46	1.46	1.67	1.67	1.67
360.0	1.25	1.04	1.25	1.46	1.46	1.67	1.67	1.67	1.46

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	1.67	1.88	1.67	1.88	1.67	1.88	1.67	1.67	1.46
22.5	1.88	2.09	2.09	2.09	2.09	2.09	1.88	2.09	1.88
45.0	1.88	1.88	1.88	1.88	2.09	2.09	2.09	1.88	2.09
67.5	1.67	1.88	1.46	1.67	1.88	1.46	1.88	1.67	1.67
90.0	1.67	1.67	1.67	1.67	1.67	1.67	1.67	1.88	1.88
112.5	1.46	1.67	1.88	1.67	1.88	2.09	1.88	1.88	1.88
135.0	1.88	1.88	1.88	2.09	2.09	2.09	1.88	2.09	1.88
157.5	1.88	2.09	2.09	2.09	2.30	2.09	2.09	2.09	2.09
180.0	1.67	1.67	1.88	1.88	2.09	1.88	1.88	1.88	1.88
202.5	1.88	1.67	1.88	1.88	1.88	2.09	1.88	2.09	2.09
225.0	2.09	1.88	1.88	1.88	1.88	2.09	1.88	2.09	2.09
247.5	1.46	1.46	1.67	1.88	1.46	1.88	1.67	1.88	1.67
270.0	1.67	1.25	1.46	1.88	1.88	1.67	1.88	1.67	1.67
292.5	1.46	1.67	1.67	1.46	1.67	1.67	1.67	1.67	1.67
315.0	1.46	1.67	1.88	1.88	1.67	1.88	1.88	1.88	1.88
337.5	1.88	1.67	1.88	1.88	2.09	1.67	1.88	1.88	2.09
360.0	1.67	1.88	1.67	1.88	1.67	1.88	1.67	1.67	1.46

C/γ(°)	180.0
0.0	1.88
22.5	2.09
45.0	2.09
67.5	1.88
90.0	1.88
112.5	1.88
135.0	1.88
157.5	1.88
180.0	1.88
202.5	2.09
225.0	2.09
247.5	1.88
270.0	1.88
292.5	1.88
315.0	1.88
337.5	1.88
360.0	1.88