

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : PRXXX22LX-140L35KEX-DF22.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB] Intertek  
[ISSUE DATE] 10/17/2017  
[UPDATE] 3/22/2018  
[LAB-REF LUMCAT] CRT1709151315-004-001\_M-140L-35K  
[MANUFAC] Spectrum Lighting  
[LUMCAT] PRxxx22LX-140L-35K-EX-DF22  
[LUMINAIRE] 22" Diam. LED Mid Bay: Diffuse Prismatic Acrylic Refractor  
[OTHER] 10.3% Uplight, 89.7% Downlight  
[OTHER] 73.4 Deg. Beam Angle (down)  
[LAMP] N/A  
[LAMPCAT] N/A  
[OTHER] Tested as PRDDH22LX, data applicable to PREXT22LX & PREXL22LX  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] This report updated by Spectrum Lighting, scaled from 65K-27L  
[\_CCTMULT] 40K x 1.03, 30K x 0.979, 27K x 0.959  
[\_LAMPMULT] 65L x 0.47, 100L x 0.71, 130L x 0.93  
[\_CRI] 85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14238
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	126
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.83 ft (Diameter)
Luminous Width (90-270)	1.83 ft (Diameter)
Luminous Height	1.12 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3734	3770	3775
55	3234	3259	3276
65	2726	2737	2747
75	2289	2290	2292
85	1954	1949	1955

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	7913.521	7913.521	7913.521	7913.521	7913.521	7913.521	7913.521	7913.521	7913.521	7913.521
2.5	7923.051	7894.461	7914.186	7913.078	7916.624	7913.078	7914.186	7894.461	7923.051	7894.461
5.0	7955.409	7938.787	7949.425	7941.446	7946.987	7941.446	7949.425	7938.787	7955.409	7938.787
7.5	8033.423	8007.270	8045.834	8033.644	8049.602	8033.644	8045.834	8007.270	8033.423	8007.270
10.0	8068.440	8065.337	8087.944	8076.862	8064.229	8076.862	8087.944	8065.337	8068.440	8065.337
12.5	8014.362	8029.877	8049.823	8013.033	8019.682	8013.033	8049.823	8029.877	8014.362	8029.877
15.0	7868.752	7879.390	7903.326	7879.168	7880.276	7879.168	7903.326	7879.390	7868.752	7879.390
17.5	7605.677	7619.639	7618.088	7597.698	7591.492	7597.698	7618.088	7619.639	7605.677	7619.639
20.0	7314.455	7308.471	7326.866	7319.331	7331.077	7319.331	7326.866	7308.471	7314.455	7308.471
22.5	7025.671	7029.439	7048.056	7037.861	7048.721	7037.861	7048.056	7029.439	7025.671	7029.439
25.0	6711.178	6719.157	6728.908	6744.201	6743.093	6744.201	6728.908	6719.157	6711.178	6719.157
27.5	6333.964	6338.618	6360.338	6357.013	6350.364	6357.013	6360.338	6338.618	6333.964	6338.618
30.0	5983.345	5990.437	5993.983	5995.092	5992.210	5995.092	5993.983	5990.437	5983.345	5990.437
32.5	5634.721	5640.927	5641.813	5640.927	5634.278	5640.927	5641.813	5640.927	5634.721	5640.927
35.0	5196.780	5176.390	5185.477	5186.585	5208.970	5186.585	5185.477	5176.390	5196.780	5176.390
37.5	4040.315	4040.093	4030.120	4003.746	4011.060	4003.746	4030.120	4040.093	4040.315	4040.093
40.0	2734.249	2726.271	2708.984	2714.746	2734.914	2714.746	2708.984	2726.271	2734.249	2726.271
42.5	1561.162	1550.523	1549.415	1553.405	1542.102	1553.405	1549.415	1550.523	1561.162	1550.523
45.0	1148.930	1155.136	1160.011	1159.125	1161.563	1159.125	1160.011	1155.136	1148.930	1155.136
47.5	1099.285	1105.047	1108.815	1107.485	1112.139	1107.485	1108.815	1105.047	1099.285	1105.047
50.0	1051.856	1056.953	1060.721	1058.727	1064.489	1058.727	1060.721	1056.953	1051.856	1056.953
52.5	1005.979	1010.854	1014.622	1012.849	1019.276	1012.849	1014.622	1010.854	1005.979	1010.854
55.0	958.550	962.317	966.085	964.091	971.183	964.091	966.085	962.317	958.550	962.317
57.5	907.796	911.121	914.445	912.451	919.543	912.451	914.445	911.121	907.796	911.121
60.0	855.935	858.151	860.589	858.816	864.579	858.816	860.589	858.151	855.935	858.151
62.5	803.630	806.290	807.620	805.847	810.723	805.847	807.620	806.290	803.630	806.290
65.0	752.655	754.650	755.758	754.429	758.418	754.429	755.758	754.650	752.655	754.650
67.5	703.232	705.448	705.670	705.005	707.886	705.005	705.670	705.448	703.232	705.448
70.0	655.803	658.019	657.798	657.576	660.014	657.576	657.798	658.019	655.803	658.019
72.5	611.034	611.920	610.812	610.812	612.807	610.812	611.920	611.034	611.034	611.920
75.0	566.265	567.373	566.486	566.486	566.930	566.486	567.373	566.265	566.265	567.373
77.5	524.598	525.485	524.598	525.263	524.598	525.263	524.598	525.485	524.598	525.485
80.0	486.035	486.699	486.256	486.699	486.699	486.699	486.256	486.699	486.035	486.699
82.5	449.687	450.352	449.466	450.795	449.909	450.795	449.466	450.352	449.687	450.352
85.0	412.675	412.453	411.567	414.005	412.897	414.005	411.567	412.453	412.675	412.453
87.5	377.879	376.993	376.328	377.214	376.328	377.214	376.328	376.993	377.879	376.993
90.0	352.170	351.727	351.505	353.278	351.727	353.278	351.505	351.727	352.170	351.727
92.5	331.115	330.894	330.007	331.337	330.450	331.337	330.007	330.894	331.115	330.894
95.0	310.947	311.169	310.725	311.612	311.169	311.612	310.725	311.169	310.947	311.169
97.5	293.660	292.552	292.995	293.660	292.995	293.660	292.995	292.552	293.660	292.552
100.0	277.702	277.481	277.481	277.702	276.594	277.702	277.481	277.481	277.702	277.481
102.5	263.296	262.853	263.296	262.853	263.075	262.853	263.296	262.853	263.296	262.853
105.0	250.664	250.885	250.442	250.664	249.999	250.664	250.442	250.885	250.664	250.885
107.5	238.696	238.696	238.696	239.360	238.474	239.360	238.696	238.696	238.696	238.696
110.0	229.165	229.165	228.722	229.387	228.944	229.387	228.722	229.165	229.165	229.165
112.5	220.300	220.079	220.079	220.300	219.635	220.300	220.079	220.079	220.300	220.079
115.0	212.543	212.322	212.322	212.765	212.322	212.765	212.322	212.322	212.543	212.322
117.5	206.338	205.894	205.894	206.116	206.116	206.116	205.894	205.894	206.338	205.894
120.0	201.018	201.018	201.018	201.240	201.018	201.240	201.018	201.018	201.018	201.018
122.5	197.251	197.251	197.251	197.694	197.472	197.694	197.251	197.251	197.251	197.251
125.0	194.813	194.813	194.813	195.034	194.813	195.034	194.813	194.813	194.813	194.813

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127.5	193.483	193.483	193.483	193.705	193.483	193.705	193.483	193.483	193.483	193.483
130.0	193.040	193.040	193.040	193.483	193.261	193.483	193.040	193.040	193.040	193.040
132.5	193.705	194.148	193.926	194.370	194.148	194.370	193.926	194.148	193.705	194.148
135.0	195.256	195.256	195.256	195.478	195.256	195.478	195.256	195.256	195.256	195.256
137.5	197.251	197.251	197.472	197.472	197.251	197.472	197.472	197.251	197.251	197.251
140.0	199.910	200.132	200.575	200.575	200.354	200.575	200.575	200.132	199.910	200.132
142.5	203.900	203.900	204.343	204.343	203.900	204.343	204.343	203.900	203.900	203.900
145.0	207.889	208.111	208.554	208.554	207.667	208.554	208.554	208.111	207.889	208.111
147.5	212.543	212.765	213.208	212.543	211.878	212.543	213.208	212.765	212.543	212.765
150.0	217.641	217.641	217.641	216.754	216.533	216.754	217.641	217.641	217.641	217.641
152.5	220.522	221.852	222.295	220.965	219.635	220.965	222.295	221.852	220.522	221.852
155.0	220.300	224.733	225.398	224.290	219.857	224.290	225.398	224.733	220.300	224.733
157.5	222.738	226.063	228.501	226.727	221.852	226.727	228.501	226.063	222.738	226.063
160.0	224.733	225.841	229.165	226.506	224.290	226.506	229.165	225.841	224.733	225.841
162.5	224.068	222.960	226.727	223.625	224.511	223.625	226.727	222.960	224.068	222.960
165.0	220.965	218.749	221.187	219.192	221.187	219.192	221.187	218.749	220.965	218.749
167.5	215.203	212.322	212.986	212.765	214.759	212.765	212.986	212.322	215.203	212.322
170.0	205.229	202.791	202.348	203.013	204.121	203.013	202.348	202.791	205.229	202.791
172.5	195.034	192.596	193.926	193.483	193.040	193.483	193.926	192.596	195.034	192.596
175.0	196.807	196.586	199.689	197.916	194.148	197.916	199.689	196.586	196.807	196.586
177.5	208.332	209.662	212.543	209.884	205.008	209.884	212.543	209.662	208.332	209.662
180.0	216.000	216.000	216.000	216.000	216.000	216.000	216.000	216.000	216.000	216.000

**Vert.  
Angles**

**Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	7913.521	7913.521	7913.521	7913.521	7913.521	7913.521	7913.521
2.5	7914.186	7913.078	7916.624	7913.078	7914.186	7894.461	7923.051
5.0	7949.425	7941.446	7946.987	7941.446	7949.425	7938.787	7955.409
7.5	8045.834	8033.644	8049.602	8033.644	8045.834	8007.270	8033.423
10.0	8087.944	8076.862	8064.229	8076.862	8087.944	8065.337	8068.440
12.5	8049.823	8013.033	8019.682	8013.033	8049.823	8029.877	8014.362
15.0	7903.326	7879.168	7880.276	7879.168	7903.326	7879.390	7868.752
17.5	7618.088	7597.698	7591.492	7597.698	7618.088	7619.639	7605.677
20.0	7326.866	7319.331	7331.077	7319.331	7326.866	7308.471	7314.455
22.5	7048.056	7037.861	7048.721	7037.861	7048.056	7029.439	7025.671
25.0	6728.908	6744.201	6743.093	6744.201	6728.908	6719.157	6711.178
27.5	6360.338	6357.013	6350.364	6357.013	6360.338	6338.618	6333.964
30.0	5993.983	5995.092	5992.210	5995.092	5993.983	5990.437	5983.345
32.5	5641.813	5640.927	5634.278	5640.927	5641.813	5640.927	5634.721
35.0	5185.477	5186.585	5208.970	5186.585	5185.477	5176.390	5196.780
37.5	4030.120	4003.746	4011.060	4003.746	4030.120	4040.093	4040.315
40.0	2708.984	2714.746	2734.914	2714.746	2708.984	2726.271	2734.249
42.5	1549.415	1553.405	1542.102	1553.405	1549.415	1550.523	1561.162
45.0	1160.011	1159.125	1161.563	1159.125	1160.011	1155.136	1148.930
47.5	1108.815	1107.485	1112.139	1107.485	1108.815	1105.047	1099.285
50.0	1060.721	1058.727	1064.489	1058.727	1060.721	1056.953	1051.856
52.5	1014.622	1012.849	1019.276	1012.849	1014.622	1010.854	1005.979
55.0	966.085	964.091	971.183	964.091	966.085	962.317	958.550
57.5	914.445	912.451	919.543	912.451	914.445	911.121	907.796
60.0	860.589	858.816	864.579	858.816	860.589	858.151	855.935
62.5	807.620	805.847	810.723	805.847	807.620	806.290	803.630
65.0	755.758	754.429	758.418	754.429	755.758	754.650	752.655

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**CANDELA TABULATION - (Cont.)**

67.5	705.670	705.005	707.886	705.005	705.670	705.448	703.232
70.0	657.798	657.576	660.014	657.576	657.798	658.019	655.803
72.5	610.812	610.812	612.807	610.812	610.812	611.920	611.034
75.0	566.486	566.486	566.930	566.486	566.486	567.373	566.265
77.5	524.598	525.263	524.598	525.263	524.598	525.485	524.598
80.0	486.256	486.699	486.699	486.699	486.256	486.699	486.035
82.5	449.466	450.795	449.909	450.795	449.466	450.352	449.687
85.0	411.567	414.005	412.897	414.005	411.567	412.453	412.675
87.5	376.328	377.214	376.328	377.214	376.328	376.993	377.879
90.0	351.505	353.278	351.727	353.278	351.505	351.727	352.170
92.5	330.007	331.337	330.450	331.337	330.007	330.894	331.115
95.0	310.725	311.612	311.169	311.612	310.725	311.169	310.947
97.5	292.995	293.660	292.995	293.660	292.995	292.552	293.660
100.0	277.481	277.702	276.594	277.702	277.481	277.481	277.702
102.5	263.296	262.853	263.075	262.853	263.296	262.853	263.296
105.0	250.442	250.664	249.999	250.664	250.442	250.885	250.664
107.5	238.696	239.360	238.474	239.360	238.696	238.696	238.696
110.0	228.722	229.387	228.944	229.387	228.722	229.165	229.165
112.5	220.079	220.300	219.635	220.300	220.079	220.079	220.300
115.0	212.322	212.765	212.322	212.765	212.322	212.322	212.543
117.5	205.894	206.116	206.116	206.116	205.894	205.894	206.338
120.0	201.018	201.240	201.018	201.240	201.018	201.018	201.018
122.5	197.251	197.694	197.472	197.694	197.251	197.251	197.251
125.0	194.813	195.034	194.813	195.034	194.813	194.813	194.813
127.5	193.483	193.705	193.483	193.705	193.483	193.483	193.483
130.0	193.040	193.483	193.261	193.483	193.040	193.040	193.040
132.5	193.926	194.370	194.148	194.370	193.926	194.148	193.705
135.0	195.256	195.478	195.256	195.478	195.256	195.256	195.256
137.5	197.472	197.472	197.251	197.472	197.472	197.251	197.251
140.0	200.575	200.575	200.354	200.575	200.575	200.132	199.910
142.5	204.343	204.343	203.900	204.343	204.343	203.900	203.900
145.0	208.554	208.554	207.667	208.554	208.554	208.111	207.889
147.5	213.208	212.543	211.878	212.543	213.208	212.765	212.543
150.0	217.641	216.754	216.533	216.754	217.641	217.641	217.641
152.5	222.295	220.965	219.635	220.965	222.295	221.852	220.522
155.0	225.398	224.290	219.857	224.290	225.398	224.733	220.300
157.5	228.501	226.727	221.852	226.727	228.501	226.063	222.738
160.0	229.165	226.506	224.290	226.506	229.165	225.841	224.733
162.5	226.727	223.625	224.511	223.625	226.727	222.960	224.068
165.0	221.187	219.192	221.187	219.192	221.187	218.749	220.965
167.5	212.986	212.765	214.759	212.765	212.986	212.322	215.203
170.0	202.348	203.013	204.121	203.013	202.348	202.791	205.229
172.5	193.926	193.483	193.040	193.483	193.926	192.596	195.034
175.0	199.689	197.916	194.148	197.916	199.689	196.586	196.807
177.5	212.543	209.884	205.008	209.884	212.543	209.662	208.332
180.0	216.000	216.000	216.000	216.000	216.000	216.000	216.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2964.57	N.A.	20.80
0-30	6044.41	N.A.	42.50
0-40	9021.44	N.A.	63.40
0-60	10973.21	N.A.	77.10
0-80	12323.92	N.A.	86.60
0-90	12776.25	N.A.	89.70
10-90	12012.56	N.A.	84.40
20-40	6056.87	N.A.	42.50
20-50	7147.05	N.A.	50.20
40-70	2701.38	N.A.	19.00
60-80	1350.7	N.A.	9.50
70-80	601.09	N.A.	4.20
80-90	452.34	N.A.	3.20
90-110	607.18	N.A.	4.30
90-120	819.20	N.A.	5.80
90-130	994.87	N.A.	7.00
90-150	1277.25	N.A.	9.00
90-180	1461.62	N.A.	10.30
110-180	854.44	N.A.	6.00
0-180	14237.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	763.70
10-20	2200.87
20-30	3079.84
30-40	2977.03
40-50	1090.18
50-60	861.60
60-70	749.61
70-80	601.09
80-90	452.34
90-100	341.00
100-110	266.18
110-120	212.02
120-130	175.67
130-140	151.63
140-150	130.75
150-160	103.18
160-170	62.17
170-180	19.03

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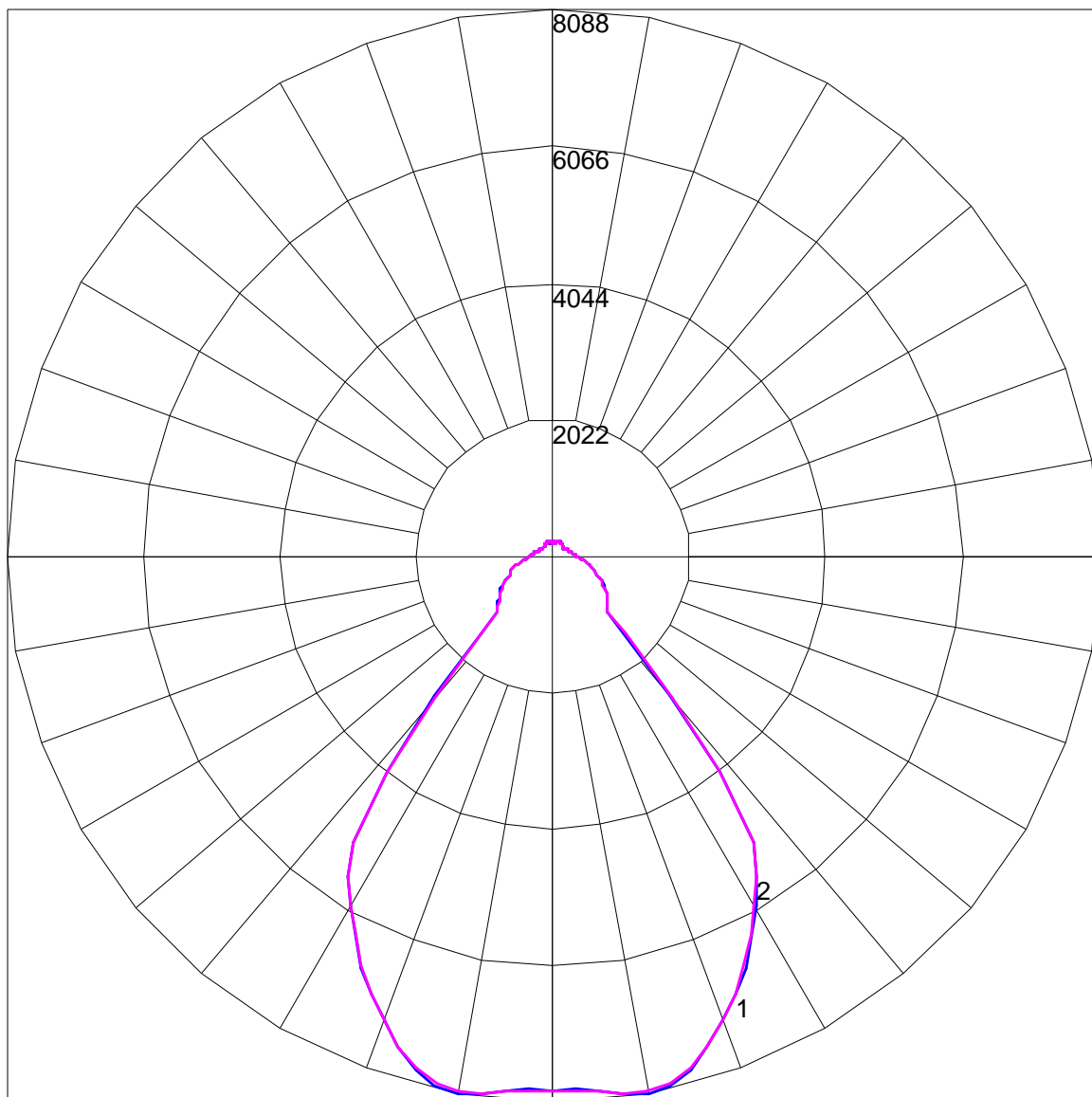
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	108	103	100	96	104	100	97	94	94	91	89	88	86	84	83	82	80	77
2	100	93	87	82	96	90	85	80	85	81	77	80	77	74	76	73	71	68
3	93	84	77	71	90	82	75	70	77	72	68	73	69	65	70	66	63	61
4	86	76	69	63	83	74	68	62	71	65	60	67	62	59	64	60	57	55
5	81	70	62	57	78	68	61	56	65	59	54	62	57	53	59	55	52	49
6	76	64	57	51	73	63	56	51	60	54	49	58	52	48	55	51	47	45
7	71	59	52	47	69	58	51	46	56	50	45	54	48	44	51	47	43	41
8	67	55	48	43	65	54	47	42	52	46	41	50	45	41	48	43	40	38
9	63	51	44	39	61	50	43	39	48	42	38	47	41	37	45	40	37	35
10	59	48	41	36	58	47	40	36	45	39	35	44	38	35	42	38	34	33

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : PRXXX22LX-140L35KEX-DF22.IES

POLAR GRAPH



Maximum Candela = 8087.944 Located At Horizontal Angle = 45, Vertical Angle = 10  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)