

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRXXX22LX-130L35KEX-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-130L-35K

[MANUFAC] Spectrum Lighting

[LUMCAT] PRxxx22LX-130L-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] CCT Output Multipliers: 40K x 1.03, 30K x 0.979, 27K x 0.959

[OTHER] This report updated by Spectrum Lighting, scaled from 65K-27L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	117
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

IES INDOOR REPORT
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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3467	3501	3506
55	3003	3027	3043
65	2532	2542	2551
75	2126	2126	2128
85	1815	1810	1816

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRXXX22LX-130L35KEX-DF22.IES

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	7349.009	7349.009	7349.009	7349.009	7349.009	7349.009	7349.009	7349.009	7349.009	7349.009
2.5	7357.859	7331.308	7349.626	7348.597	7351.890	7348.597	7349.626	7331.308	7357.859	7331.308
5.0	7387.908	7372.472	7382.351	7374.942	7380.087	7374.942	7382.351	7372.472	7387.908	7372.472
7.5	7460.357	7436.070	7471.883	7460.563	7475.382	7460.563	7471.883	7436.070	7460.357	7436.070
10.0	7492.877	7489.995	7510.989	7500.698	7488.966	7500.698	7510.989	7489.995	7492.877	7489.995
12.5	7442.657	7457.064	7475.588	7441.422	7447.596	7441.422	7475.588	7457.064	7442.657	7457.064
15.0	7307.433	7317.312	7339.541	7317.106	7318.136	7317.106	7339.541	7317.312	7307.433	7317.312
17.5	7063.125	7076.091	7074.650	7055.715	7049.952	7055.715	7074.650	7076.091	7063.125	7076.091
20.0	6792.677	6787.120	6804.203	6797.205	6808.114	6797.205	6804.203	6787.120	6792.677	6787.120
22.5	6524.494	6527.993	6545.281	6535.814	6545.899	6535.814	6545.281	6527.993	6524.494	6527.993
25.0	6232.435	6239.845	6248.901	6263.102	6262.073	6263.102	6248.901	6239.845	6232.435	6239.845
27.5	5882.129	5886.452	5906.622	5903.535	5897.360	5903.535	5906.622	5886.452	5882.129	5886.452
30.0	5556.522	5563.108	5566.402	5567.431	5564.755	5567.431	5566.402	5563.108	5556.522	5563.108
32.5	5232.767	5238.530	5239.354	5238.530	5232.356	5238.530	5239.354	5238.530	5232.767	5238.530
35.0	4826.067	4807.132	4815.570	4816.599	4837.387	4816.599	4815.570	4807.132	4826.067	4807.132
37.5	3752.098	3751.893	3742.631	3718.138	3724.930	3718.138	3742.631	3751.893	3752.098	3751.893
40.0	2539.201	2531.792	2515.738	2521.089	2539.819	2521.089	2515.738	2531.792	2539.201	2531.792
42.5	1449.796	1439.917	1438.888	1442.592	1432.095	1442.592	1438.888	1439.917	1449.796	1439.917
45.0	1066.971	1072.734	1077.262	1076.439	1078.703	1076.439	1077.262	1072.734	1066.971	1072.734
47.5	1020.867	1026.218	1029.717	1028.482	1032.805	1028.482	1029.717	1026.218	1020.867	1026.218
50.0	976.822	981.556	985.054	983.202	988.553	983.202	985.054	981.556	976.822	981.556
52.5	934.217	938.745	942.244	940.597	946.566	940.597	942.244	938.745	934.217	938.745
55.0	890.171	893.670	897.169	895.317	901.903	895.317	897.169	893.670	890.171	893.670
57.5	843.039	846.126	849.213	847.361	853.947	847.361	849.213	846.126	843.039	846.126
60.0	794.877	796.935	799.199	797.552	802.904	797.552	799.199	796.935	794.877	796.935
62.5	746.303	748.773	750.008	748.361	752.890	748.361	750.008	748.773	746.303	748.773
65.0	698.965	700.817	701.846	700.611	704.316	700.611	701.846	700.817	698.965	700.817
67.5	653.067	655.125	655.331	654.713	657.389	654.713	655.331	655.125	653.067	655.125
70.0	609.021	611.080	610.874	610.668	612.932	610.668	610.874	611.080	609.021	611.080
72.5	567.446	568.269	567.240	567.240	569.092	567.240	568.269	567.446	568.269	567.446
75.0	525.870	526.899	526.076	526.076	526.488	526.076	526.899	525.870	526.899	526.076
77.5	487.176	487.999	487.176	487.793	487.176	487.793	487.176	487.999	487.176	487.999
80.0	451.363	451.981	451.569	451.981	451.981	451.981	451.569	451.981	451.363	451.981
82.5	417.609	418.226	417.403	418.638	417.815	418.638	417.403	418.226	417.609	418.226
85.0	383.237	383.031	382.208	384.472	383.443	384.472	382.208	383.031	383.237	383.031
87.5	350.923	350.100	349.482	350.306	349.482	350.306	349.482	350.100	350.923	350.100
90.0	327.048	326.636	326.431	328.077	326.636	328.077	326.431	326.636	327.048	326.636
92.5	307.495	307.289	306.466	307.701	306.878	307.701	306.466	307.289	307.495	307.289
95.0	288.765	288.971	288.560	289.383	288.971	289.383	288.560	288.971	288.765	288.971
97.5	272.711	271.682	272.094	272.711	272.094	272.711	272.094	271.682	272.711	271.682
100.0	257.892	257.687	257.687	257.892	256.863	257.892	257.687	257.687	257.892	257.687
102.5	244.514	244.103	244.514	244.103	244.308	244.103	244.514	244.103	244.514	244.103
105.0	232.782	232.988	232.577	232.782	232.165	232.782	232.577	232.988	232.782	232.988
107.5	221.668	221.668	221.668	222.286	221.462	222.286	221.668	221.668	221.668	221.668
110.0	212.818	212.818	212.406	213.024	212.612	213.024	212.406	212.818	212.818	212.818
112.5	204.585	204.379	204.379	204.585	203.968	204.585	204.379	204.379	204.585	204.379
115.0	197.381	197.176	197.176	197.587	197.176	197.587	197.176	197.176	197.381	197.176
117.5	191.618	191.207	191.207	191.413	191.413	191.413	191.207	191.207	191.618	191.207
120.0	186.679	186.679	186.679	186.885	186.679	186.885	186.679	186.679	186.679	186.679
122.5	183.180	183.180	183.180	183.591	183.386	183.591	183.180	183.180	183.180	183.180
125.0	180.916	180.916	180.916	181.122	180.916	181.122	180.916	180.916	180.916	180.916

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRXXX22LX-130L35KEX-DF22.IES

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127.5	179.681	179.681	179.681	179.887	179.681	179.887	179.681	179.681	179.681	179.681
130.0	179.269	179.269	179.269	179.681	179.475	179.681	179.269	179.269	179.269	179.269
132.5	179.887	180.298	180.092	180.504	180.298	180.504	180.092	180.298	179.887	180.298
135.0	181.327	181.327	181.327	181.533	181.327	181.533	181.327	181.327	181.327	181.327
137.5	183.180	183.180	183.386	183.386	183.180	183.386	183.386	183.180	183.180	183.180
140.0	185.650	185.855	186.267	186.267	186.061	186.267	186.267	185.855	185.650	185.855
142.5	189.354	189.354	189.766	189.766	189.354	189.766	189.766	189.354	189.354	189.354
145.0	193.059	193.265	193.677	193.677	192.853	193.677	193.677	193.265	193.059	193.265
147.5	197.381	197.587	197.999	197.381	196.764	197.381	197.999	197.587	197.381	197.587
150.0	202.115	202.115	202.115	201.292	201.086	201.292	202.115	202.115	202.115	202.115
152.5	204.791	206.026	206.437	205.203	203.968	205.203	206.437	206.026	204.791	206.026
155.0	204.585	208.701	209.319	208.290	204.173	208.290	209.319	208.701	204.585	208.701
157.5	206.849	209.936	212.200	210.554	206.026	210.554	212.200	209.936	206.849	209.936
160.0	208.701	209.731	212.818	210.348	208.290	210.348	212.818	209.731	208.701	209.731
162.5	208.084	207.055	210.554	207.672	208.496	207.672	210.554	207.055	208.084	207.055
165.0	205.203	203.144	205.408	203.556	205.408	203.556	205.408	203.144	205.203	203.144
167.5	199.851	197.176	197.793	197.587	199.440	197.587	197.793	197.176	199.851	197.176
170.0	190.589	188.325	187.914	188.531	189.560	188.531	187.914	188.325	190.589	188.325
172.5	181.122	178.858	180.092	179.681	179.269	179.681	180.092	178.858	181.122	178.858
175.0	182.768	182.562	185.444	183.797	180.298	183.797	185.444	182.562	182.768	182.562
177.5	193.471	194.706	197.381	194.912	190.383	194.912	197.381	194.706	193.471	194.706
180.0	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000	200.000

**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	7349.009	7349.009	7349.009	7349.009	7349.009	7349.009	7349.009
2.5	7349.626	7348.597	7351.890	7348.597	7349.626	7331.308	7357.859
5.0	7382.351	7374.942	7380.087	7374.942	7382.351	7372.472	7387.908
7.5	7471.883	7460.563	7475.382	7460.563	7471.883	7436.070	7460.357
10.0	7510.989	7500.698	7488.966	7500.698	7510.989	7489.995	7492.877
12.5	7475.588	7441.422	7447.596	7441.422	7475.588	7457.064	7442.657
15.0	7339.541	7317.106	7318.136	7317.106	7339.541	7317.312	7307.433
17.5	7074.650	7055.715	7049.952	7055.715	7074.650	7076.091	7063.125
20.0	6804.203	6797.205	6808.114	6797.205	6804.203	6787.120	6792.677
22.5	6545.281	6535.814	6545.899	6535.814	6545.281	6527.993	6524.494
25.0	6248.901	6263.102	6262.073	6263.102	6248.901	6239.845	6232.435
27.5	5906.622	5903.535	5897.360	5903.535	5906.622	5886.452	5882.129
30.0	5566.402	5567.431	5564.755	5567.431	5566.402	5563.108	5556.522
32.5	5239.354	5238.530	5232.356	5238.530	5239.354	5238.530	5232.767
35.0	4815.570	4816.599	4837.387	4816.599	4815.570	4807.132	4826.067
37.5	3742.631	3718.138	3724.930	3718.138	3742.631	3751.893	3752.098
40.0	2515.738	2521.089	2539.819	2521.089	2515.738	2531.792	2539.201
42.5	1438.888	1442.592	1432.095	1442.592	1438.888	1439.917	1449.796
45.0	1077.262	1076.439	1078.703	1076.439	1077.262	1072.734	1066.971
47.5	1029.717	1028.482	1032.805	1028.482	1029.717	1026.218	1020.867
50.0	985.054	983.202	988.553	983.202	985.054	981.556	976.822
52.5	942.244	940.597	946.566	940.597	942.244	938.745	934.217
55.0	897.169	895.317	901.903	895.317	897.169	893.670	890.171
57.5	849.213	847.361	853.947	847.361	849.213	846.126	843.039
60.0	799.199	797.552	802.904	797.552	799.199	796.935	794.877
62.5	750.008	748.361	752.890	748.361	750.008	748.773	746.303
65.0	701.846	700.611	704.316	700.611	701.846	700.817	698.965

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PHOTOMETRIC FILENAME : PRXXX22LX-130L35KEX-DF22.IES

CANDELA TABULATION - (Cont.)

67.5	655.331	654.713	657.389	654.713	655.331	655.125	653.067
70.0	610.874	610.668	612.932	610.668	610.874	611.080	609.021
72.5	567.240	567.240	569.092	567.240	567.240	568.269	567.446
75.0	526.076	526.076	526.488	526.076	526.076	526.899	525.870
77.5	487.176	487.793	487.176	487.793	487.176	487.999	487.176
80.0	451.569	451.981	451.981	451.981	451.569	451.981	451.363
82.5	417.403	418.638	417.815	418.638	417.403	418.226	417.609
85.0	382.208	384.472	383.443	384.472	382.208	383.031	383.237
87.5	349.482	350.306	349.482	350.306	349.482	350.100	350.923
90.0	326.431	328.077	326.636	328.077	326.431	326.636	327.048
92.5	306.466	307.701	306.878	307.701	306.466	307.289	307.495
95.0	288.560	289.383	288.971	289.383	288.560	288.971	288.765
97.5	272.094	272.711	272.094	272.711	272.094	271.682	272.711
100.0	257.687	257.892	256.863	257.892	257.687	257.687	257.892
102.5	244.514	244.103	244.308	244.103	244.514	244.103	244.514
105.0	232.577	232.782	232.165	232.782	232.577	232.988	232.782
107.5	221.668	222.286	221.462	222.286	221.668	221.668	221.668
110.0	212.406	213.024	212.612	213.024	212.406	212.818	212.818
112.5	204.379	204.585	203.968	204.585	204.379	204.379	204.585
115.0	197.176	197.587	197.176	197.587	197.176	197.176	197.381
117.5	191.207	191.413	191.413	191.413	191.207	191.207	191.618
120.0	186.679	186.885	186.679	186.885	186.679	186.679	186.679
122.5	183.180	183.591	183.386	183.591	183.180	183.180	183.180
125.0	180.916	181.122	180.916	181.122	180.916	180.916	180.916
127.5	179.681	179.887	179.681	179.887	179.681	179.681	179.681
130.0	179.269	179.681	179.475	179.681	179.269	179.269	179.269
132.5	180.092	180.504	180.298	180.504	180.092	180.298	179.887
135.0	181.327	181.533	181.327	181.533	181.327	181.327	181.327
137.5	183.386	183.386	183.180	183.386	183.386	183.180	183.180
140.0	186.267	186.267	186.061	186.267	186.267	185.855	185.650
142.5	189.766	189.766	189.354	189.766	189.766	189.354	189.354
145.0	193.677	193.677	192.853	193.677	193.677	193.265	193.059
147.5	197.999	197.381	196.764	197.381	197.999	197.587	197.381
150.0	202.115	201.292	201.086	201.292	202.115	202.115	202.115
152.5	206.437	205.203	203.968	205.203	206.437	206.026	204.791
155.0	209.319	208.290	204.173	208.290	209.319	208.701	204.585
157.5	212.200	210.554	206.026	210.554	212.200	209.936	206.849
160.0	212.818	210.348	208.290	210.348	212.818	209.731	208.701
162.5	210.554	207.672	208.496	207.672	210.554	207.055	208.084
165.0	205.408	203.556	205.408	203.556	205.408	203.144	205.203
167.5	197.793	197.587	199.440	197.587	197.793	197.176	199.851
170.0	187.914	188.531	189.560	188.531	187.914	188.325	190.589
172.5	180.092	179.681	179.269	179.681	180.092	178.858	181.122
175.0	185.444	183.797	180.298	183.797	185.444	182.562	182.768
177.5	197.381	194.912	190.383	194.912	197.381	194.706	193.471
180.0	200.000	200.000	200.000	200.000	200.000	200.000	200.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2753.09	N.A.	20.80
0-30	5613.23	N.A.	42.50
0-40	8377.89	N.A.	63.40
0-60	10190.44	N.A.	77.10
0-80	11444.79	N.A.	86.60
0-90	11864.86	N.A.	89.70
10-90	11155.64	N.A.	84.40
20-40	5624.8	N.A.	42.50
20-50	6637.21	N.A.	50.20
40-70	2508.68	N.A.	19.00
60-80	1254.35	N.A.	9.50
70-80	558.21	N.A.	4.20
80-90	420.07	N.A.	3.20
90-110	563.87	N.A.	4.30
90-120	760.77	N.A.	5.80
90-130	923.90	N.A.	7.00
90-150	1186.14	N.A.	9.00
90-180	1357.35	N.A.	10.30
110-180	793.48	N.A.	6.00
0-180	13222.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	709.22
10-20	2043.87
20-30	2860.14
30-40	2764.66
40-50	1012.41
50-60	800.13
60-70	696.14
70-80	558.21
80-90	420.07
90-100	316.68
100-110	247.19
110-120	196.90
120-130	163.14
130-140	140.81
140-150	121.42
150-160	95.82
160-170	57.73
170-180	17.67

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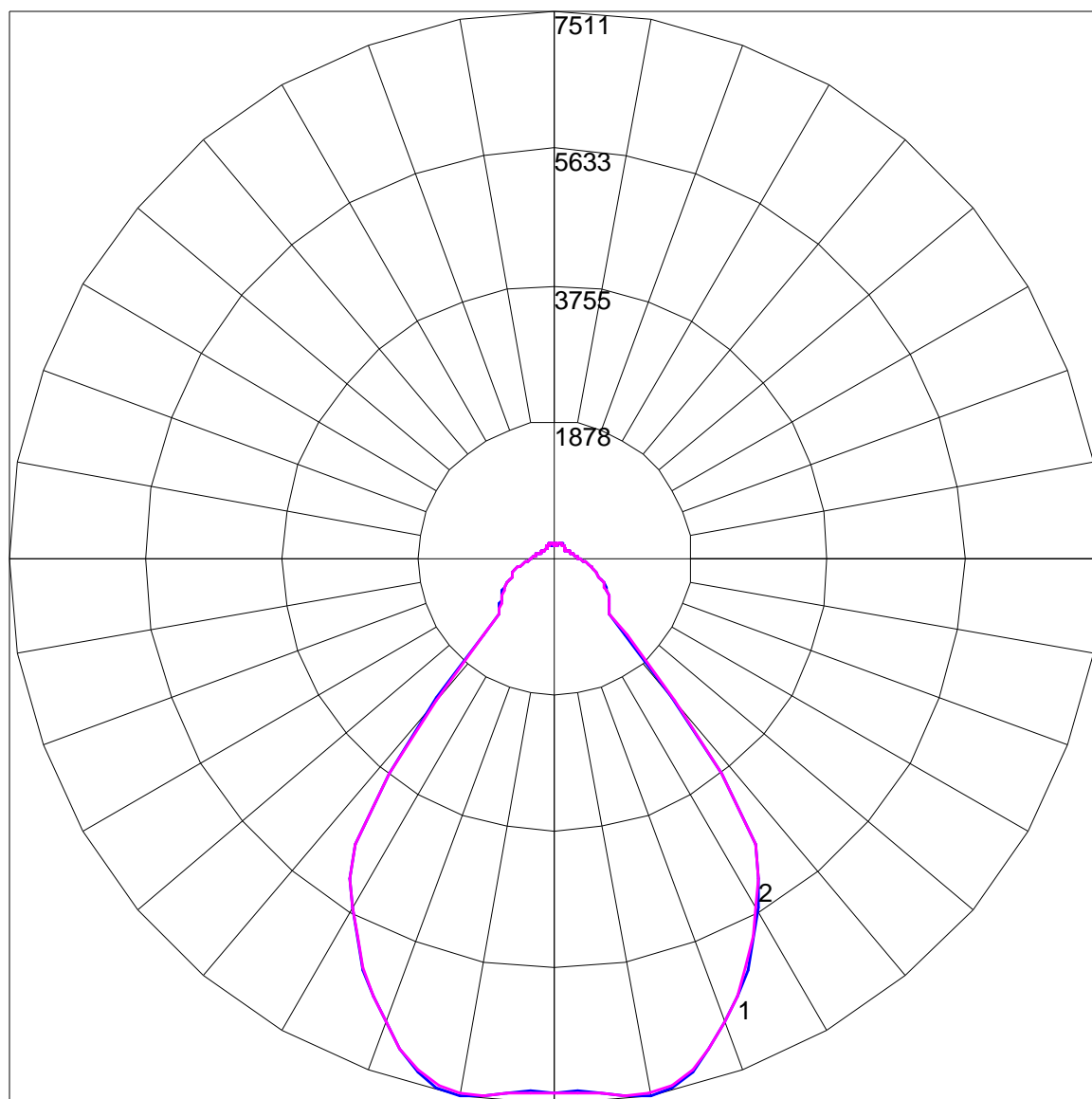
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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-130L35KEX-DF22.IES

POLAR GRAPH



Maximum Candela = 7510.989 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)