

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : PRXXX16LEDLX-130L35KE1-PR16.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 101537614CRT-019\_M-130L  
 [TESTLAB] Intertek  
 [LAB-REF LUMCAT] CRT1411051054-003\_M-130L  
 [ISSUEDATE] 11/13/2014  
 [UPDATE] 05/19/2016  
 [MANUFAC] SPECTRUM LIGHTING  
 [LUMCAT] PRxxx16LEDLX-130L-35K-E1-PR16  
 [LUMINAIRE] 16" Diam. Prismatic Acrylic Refractor, PRDDH or PREXT Series, Open Aperture  
 [LAMP] N/A  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] CCT Output Multipliers: 40K x 1.03, 30K x 0.979, 27K x 0.959  
 [OTHER] Catalog Number Update: 114W changed to 130L  
 [OTHER] This report updated by Spectrum ighting, scaled from 100L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12250
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	117
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.46 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6712	7041	6708
55	3457	3536	3307
65	2243	2261	2207
75	1087	1097	1103
85	643	631	623

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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>
0.0	13469.066	13469.066	13469.066	13469.066	13469.066
2.5	13492.086	13478.724	13470.786	13466.949	13469.859
5.0	13588.929	13580.859	13536.803	13562.602	13617.374
7.5	13595.148	13552.018	13501.347	13554.928	13592.369
10.0	13312.819	13238.070	13225.501	13253.549	13265.059
12.5	12800.554	12707.547	12679.102	12698.154	12716.940
15.0	12184.036	12043.665	12019.322	11993.921	12037.183
17.5	11320.514	11192.315	11137.278	11105.791	11181.599
20.0	10191.069	10060.356	9995.662	9970.260	10105.206
22.5	9084.908	9007.116	8970.866	8924.164	9072.472
25.0	8233.690	8169.922	8159.867	8131.952	8218.608
27.5	7314.338	7301.637	7343.576	7327.700	7389.219
30.0	6099.824	6094.664	6217.041	6222.598	6251.572
32.5	4640.025	4615.947	4817.307	4826.039	4840.857
35.0	3308.558	3286.993	3469.303	3467.451	3498.276
37.5	2198.826	2190.756	2356.263	2319.616	2360.497
40.0	1452.919	1424.077	1531.769	1496.842	1516.555
42.5	1112.775	1108.012	1159.874	1137.515	1128.122
45.0	883.102	892.893	926.497	908.769	882.573
47.5	699.999	719.844	742.203	725.665	698.015
50.0	548.516	566.509	580.797	569.551	542.165
52.5	468.474	481.175	488.319	477.603	454.980
55.0	417.274	425.080	426.800	418.333	399.149
57.5	370.705	374.806	372.292	367.926	353.506
60.0	319.901	325.326	319.769	318.446	309.053
62.5	274.787	279.021	277.168	277.962	268.172
65.0	238.140	239.728	239.992	240.918	234.303
67.5	201.493	200.964	203.874	201.757	200.302
70.0	162.464	159.421	164.184	162.332	163.920
72.5	124.494	121.054	127.273	126.876	128.596
75.0	96.050	91.155	96.976	96.314	97.505
77.5	74.088	68.796	71.839	72.368	72.500
80.0	58.212	55.831	56.757	56.889	56.227
82.5	50.671	49.216	49.612	49.216	49.480
85.0	43.659	42.336	42.865	43.262	42.336
87.5	37.838	36.779	37.044	38.235	37.309
90.0	39.558	39.425	39.822	40.219	39.822
92.5	39.293	39.690	39.955	40.616	40.219
95.0	34.663	36.118	35.721	37.573	36.779
97.5	31.752	32.546	32.678	34.795	33.869
100.0	32.943	34.795	35.986	37.309	35.986
102.5	35.853	39.822	41.807	42.468	39.822
105.0	39.425	45.379	48.686	47.893	44.320
107.5	41.542	47.893	49.745	49.083	46.702
110.0	41.013	46.040	46.834	46.702	46.966
112.5	39.558	42.601	41.674	41.807	43.924
115.0	37.441	38.896	38.102	38.235	39.955
117.5	35.589	36.515	35.456	35.721	37.176
120.0	33.736	34.398	33.472	33.736	34.530
122.5	32.413	32.678	31.487	31.752	32.413
125.0	30.958	30.694	30.164	30.032	30.561
127.5	29.900	29.503	29.106	28.974	29.106
130.0	29.371	28.709	28.444	28.312	28.444
132.5	28.974	28.577	28.444	28.312	28.312

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CANDELA TABULATION - (Cont.)

135.0	29.503	28.841	28.709	28.577	28.577
137.5	29.767	29.238	29.238	29.106	29.106
140.0	31.223	30.826	30.297	30.032	30.032
142.5	33.075	32.413	32.017	31.752	31.752
145.0	35.059	34.398	33.736	33.736	33.869
147.5	37.309	36.779	36.118	36.250	36.250
150.0	39.161	39.161	37.970	38.235	38.367
152.5	40.881	40.881	39.955	40.087	40.484
155.0	42.336	42.336	41.542	42.071	42.204
157.5	43.659	44.056	43.791	43.791	43.659
160.0	45.247	45.908	45.643	45.643	45.511
162.5	47.231	47.893	48.025	47.628	47.760
165.0	49.480	50.009	50.142	50.142	49.877
167.5	51.200	51.465	51.994	51.597	51.465
170.0	52.126	52.126	53.052	52.523	52.258
172.5	51.729	52.391	52.655	52.391	52.258
175.0	50.406	50.671	50.671	50.406	50.406
177.5	49.348	49.083	49.348	48.951	48.422
180.0	48.819	48.819	48.819	48.819	48.819

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4612.31	N.A.	37.70
0-30	8336.26	N.A.	68.10
0-40	10519.37	N.A.	85.90
0-60	11623.29	N.A.	94.90
0-80	11966.00	N.A.	97.70
0-90	12014.53	N.A.	98.10
10-90	10727.96	N.A.	87.60
20-40	5907.06	N.A.	48.20
20-50	6629.76	N.A.	54.10
40-70	1340.78	N.A.	10.90
60-80	342.71	N.A.	2.80
70-80	105.85	N.A.	0.90
80-90	48.53	N.A.	0.40
90-110	86.38	N.A.	0.70
90-120	125.26	N.A.	1.00
90-130	152.90	N.A.	1.20
90-150	196.80	N.A.	1.60
90-180	235.05	N.A.	1.90
110-180	148.67	N.A.	1.20
0-180	12249.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1286.57
10-20	3325.74
20-30	3723.95
30-40	2183.11
40-50	722.70
50-60	381.22
60-70	236.86
70-80	105.85
80-90	48.53
90-100	40.16
100-110	46.22
110-120	38.88
120-130	27.64
130-140	22.45
140-150	21.45
150-160	19.39
160-170	13.96
170-180	4.91

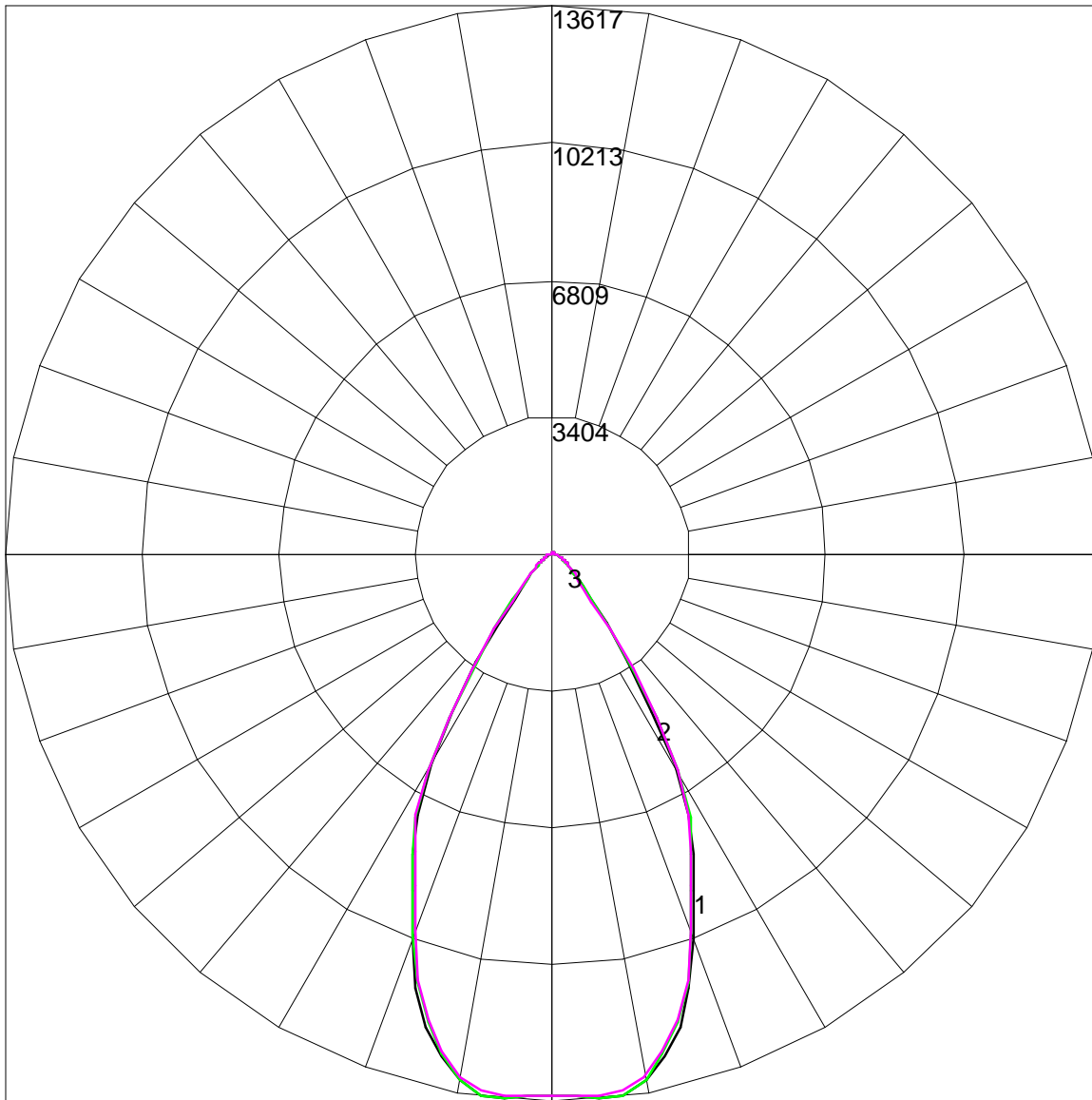
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	112	109	107	104	110	107	105	103	103	101	99	99	97	96	95	94	93	91
2	106	101	97	93	104	99	95	92	96	93	90	92	90	88	89	87	85	84
3	101	94	89	84	99	92	88	84	89	85	82	87	83	80	84	81	79	77
4	95	87	82	77	93	86	81	77	84	79	75	81	78	74	79	76	73	72
5	90	82	76	71	89	81	75	71	79	74	70	77	72	69	75	71	68	67
6	86	77	70	66	84	76	70	66	74	69	65	72	68	64	71	67	64	62
7	81	72	66	61	80	71	65	61	70	64	61	68	64	60	67	63	60	58
8	77	68	62	57	76	67	61	57	66	60	57	65	60	56	63	59	56	55
9	74	64	58	54	73	63	58	54	62	57	53	61	56	53	60	56	53	51
10	70	60	55	51	69	60	54	50	59	54	50	58	53	50	57	53	50	48

POLAR GRAPH



Maximum Candela = 13617.374 Located At Horizontal Angle = 90, Vertical Angle = 5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)