

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRXXX16LEDLX-140L35KE1-PR16.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 101537614CRT-019_M-140L
 [TESTLAB] Intertek
 [LAB-REF LUMCAT] CRT1411051054-003_M-140L
 [ISSUEDATE] 11/13/2014
 [UPDATE] 05/19/2016
 [MANUFAC] SPECTRUM LIGHTING
 [LUMCAT] PRxxx16LEDLX-140L-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: 123W changed to 140L
 [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	13192
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	126
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	7228	7583	7224
55	3723	3808	3561
65	2416	2435	2377
75	1170	1182	1188
85	692	680	671

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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	14505.462	14505.462	14505.462	14505.462	14505.462
2.5	14530.253	14515.863	14507.314	14503.182	14506.317
5.0	14634.549	14625.857	14578.412	14606.195	14665.182
7.5	14641.245	14594.797	14540.227	14597.931	14638.253
10.0	14337.193	14256.692	14243.156	14273.362	14285.758
12.5	13785.510	13685.347	13654.714	13675.231	13695.463
15.0	13121.553	12970.382	12944.166	12916.810	12963.401
17.5	12191.586	12053.523	11994.252	11960.341	12041.982
20.0	10975.235	10834.464	10764.792	10737.436	10882.765
22.5	9783.959	9700.181	9661.142	9610.846	9770.566
25.0	8867.243	8798.568	8787.739	8757.676	8851.000
27.5	7877.149	7863.471	7908.638	7891.540	7957.793
30.0	6569.183	6563.626	6695.420	6701.405	6732.608
32.5	4997.059	4971.127	5187.982	5197.386	5213.343
35.0	3563.140	3539.916	3736.253	3734.258	3767.456
37.5	2368.018	2359.326	2537.569	2498.102	2542.128
40.0	1564.715	1533.655	1649.633	1612.019	1633.248
42.5	1198.399	1193.270	1249.122	1225.043	1214.927
45.0	951.054	961.598	997.787	978.695	950.484
47.5	753.862	775.234	799.313	781.503	751.725
50.0	590.722	610.099	625.487	613.376	583.883
52.5	504.522	518.200	525.894	514.353	489.989
55.0	449.382	457.788	459.640	450.522	429.862
57.5	399.229	403.646	400.939	396.237	380.707
60.0	344.517	350.358	344.374	342.949	332.833
62.5	295.931	300.490	298.496	299.350	288.807
65.0	256.464	258.174	258.459	259.456	252.332
67.5	216.997	216.427	219.562	217.282	215.715
70.0	174.965	171.688	176.818	174.823	176.533
72.5	134.074	130.369	137.066	136.638	138.491
75.0	103.440	98.169	104.438	103.725	105.008
77.5	79.789	74.090	77.367	77.937	78.079
80.0	62.691	60.127	61.124	61.266	60.554
82.5	54.570	53.003	53.430	53.003	53.288
85.0	47.018	45.594	46.164	46.591	45.594
87.5	40.749	39.609	39.894	41.177	40.179
90.0	42.602	42.459	42.886	43.314	42.886
92.5	42.317	42.744	43.029	43.741	43.314
95.0	37.330	38.897	38.470	40.464	39.609
97.5	34.195	35.050	35.193	37.472	36.475
100.0	35.478	37.472	38.755	40.179	38.755
102.5	38.612	42.886	45.024	45.736	42.886
105.0	42.459	48.871	52.433	51.578	47.731
107.5	44.739	51.578	53.572	52.860	50.295
110.0	44.169	49.583	50.438	50.295	50.580
112.5	42.602	45.879	44.881	45.024	47.303
115.0	40.322	41.889	41.034	41.177	43.029
117.5	38.327	39.324	38.185	38.470	40.037
120.0	36.332	37.045	36.047	36.332	37.187
122.5	34.908	35.193	33.910	34.195	34.908
125.0	33.340	33.055	32.485	32.343	32.913
127.5	32.200	31.773	31.346	31.203	31.346
130.0	31.631	30.918	30.633	30.491	30.633
132.5	31.203	30.776	30.633	30.491	30.491

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CANDELA TABULATION - (Cont.)

135.0	31.773	31.061	30.918	30.776	30.776
137.5	32.058	31.488	31.488	31.346	31.346
140.0	33.625	33.198	32.628	32.343	32.343
142.5	35.620	34.908	34.480	34.195	34.195
145.0	37.757	37.045	36.332	36.332	36.475
147.5	40.179	39.609	38.897	39.040	39.040
150.0	42.174	42.174	40.892	41.177	41.319
152.5	44.026	44.026	43.029	43.171	43.599
155.0	45.594	45.594	44.739	45.309	45.451
157.5	47.018	47.446	47.161	47.161	47.018
160.0	48.728	49.441	49.156	49.156	49.013
162.5	50.865	51.578	51.720	51.293	51.435
165.0	53.288	53.857	54.000	54.000	53.715
167.5	55.140	55.425	55.995	55.567	55.425
170.0	56.137	56.137	57.134	56.565	56.280
172.5	55.710	56.422	56.707	56.422	56.280
175.0	54.285	54.570	54.570	54.285	54.285
177.5	53.145	52.860	53.145	52.718	52.148
180.0	52.575	52.575	52.575	52.575	52.575

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4967.21	N.A.	37.70
0-30	8977.7	N.A.	68.10
0-40	11328.8	N.A.	85.90
0-60	12517.66	N.A.	94.90
0-80	12886.74	N.A.	97.70
0-90	12939.01	N.A.	98.10
10-90	11553.44	N.A.	87.60
20-40	6361.59	N.A.	48.20
20-50	7139.9	N.A.	54.10
40-70	1443.94	N.A.	10.90
60-80	369.08	N.A.	2.80
70-80	114.00	N.A.	0.90
80-90	52.27	N.A.	0.40
90-110	93.03	N.A.	0.70
90-120	134.90	N.A.	1.00
90-130	164.67	N.A.	1.20
90-150	211.94	N.A.	1.60
90-180	253.14	N.A.	1.90
110-180	160.11	N.A.	1.20
0-180	13192.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1385.57
10-20	3581.64
20-30	4010.49
30-40	2351.1
40-50	778.31
50-60	410.55
60-70	255.08
70-80	114.00
80-90	52.27
90-100	43.25
100-110	49.77
110-120	41.87
120-130	29.77
130-140	24.18
140-150	23.10
150-160	20.88
160-170	15.03
170-180	5.28

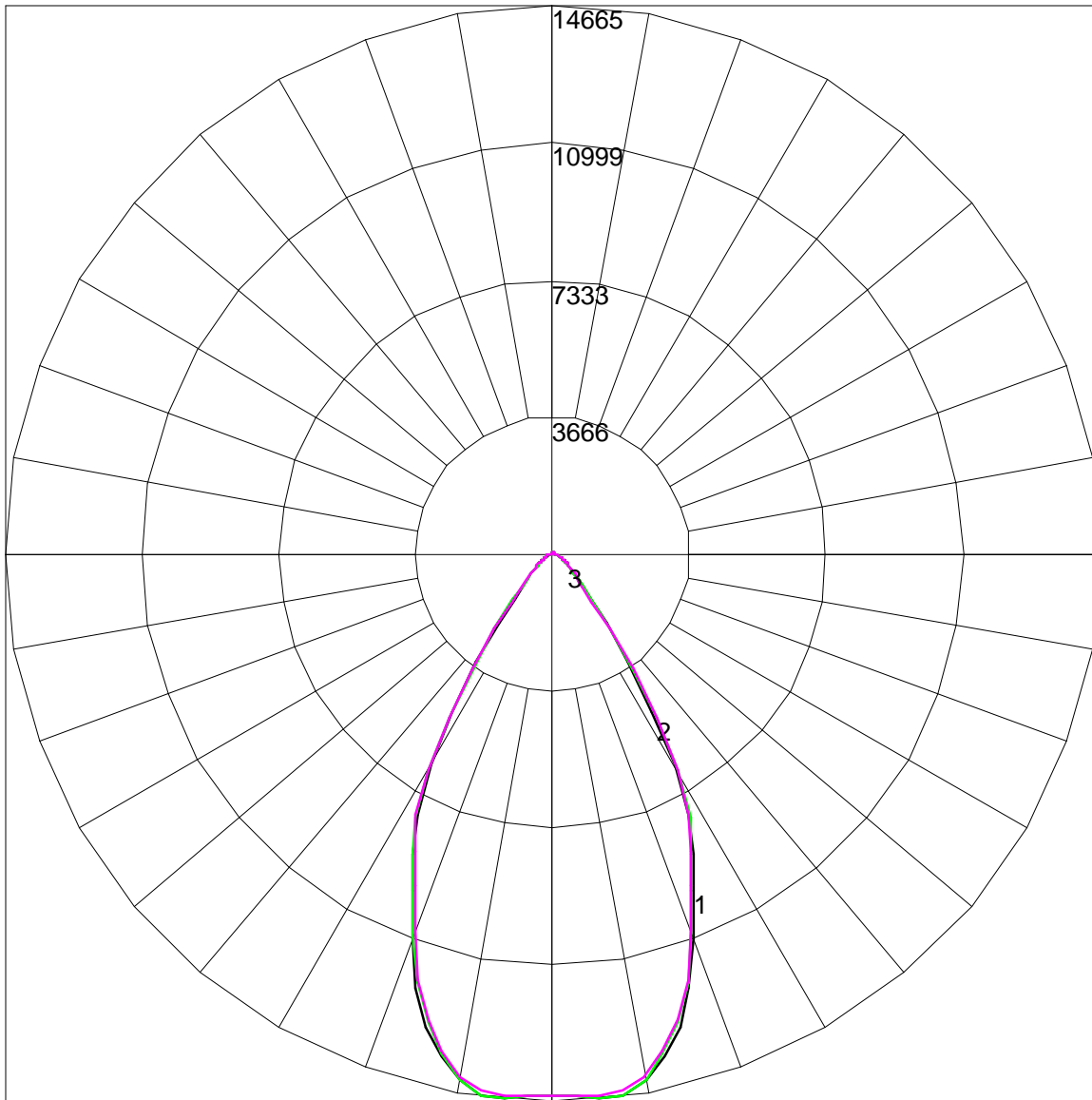
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 14665.182 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)