

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRX16LEDLX-140L35KE1-PR16-CFG.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Thu Sep 08 2016

[UPDATE] Thu Jul 27 2017

[TEST] SP-00392_37

[MANUFAC] Spectrum Lighting

[LUMCAT] PRX16LEDLX-140L-35K-E1-PR16-CFG

[LUMINAIRE] LED Prismatic Tech Pendant with Center Frosted Glass Disc

[OTHER] 16" Diam. clear acrylic refractor

[OTHER] 22" Diam. Sodalime Glass disc, with 16" Diam. Frosted Center Pattern

[LAMP] N/A

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] This report prepared by Spectrum Lighting, scaled from 100L

[_CCTMULT] 50K x 1.06, 40K x 1.03, 30K x 0.979, 27K x 0.959

[_LAMPMULT] 65L x 0.67, 100L x 1.0, 130L x 1.32, 140L x 1.50

[_CRI] 85+

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11758
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	108.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.92
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	1.03 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9671	9557	9796
55	4559	4734	4625
65	2477	2487	2505
75	1288	1284	1229
85	702	669	682

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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	9845.550	9845.550	9845.550	9845.550	9845.550
5	9706.650	9830.925	9879.255	9931.320	9970.590
10	9336.300	9392.160	9375.720	9396.420	9392.340
15	8632.665	8504.325	8492.520	8560.440	8468.445
20	7496.715	7419.870	7442.925	7384.170	7426.995
25	6206.670	6190.710	6174.900	6188.640	6215.910
30	4923.270	4896.210	4917.540	4913.100	4913.280
35	3619.245	3652.230	3652.770	3623.130	3630.990
40	2544.975	2552.910	2547.000	2557.965	2594.490
45	1757.145	1749.015	1736.430	1762.890	1779.780
50	1200.435	1188.765	1208.355	1212.000	1174.050
55	814.890	825.975	846.195	838.230	826.740
60	584.745	610.950	585.975	596.145	597.510
65	421.965	418.185	423.675	419.310	426.870
70	287.670	283.530	289.050	288.225	300.225
75	201.975	194.175	201.375	195.825	192.735
80	139.755	130.590	136.440	141.165	132.840
85	97.260	94.290	92.655	95.820	94.455
90	56.970	61.425	61.245	59.520	57.735
95	68.625	68.490	67.665	71.985	67.050
100	68.220	70.155	69.435	71.445	71.010
105	75.975	77.490	83.700	82.170	76.230
110	71.955	77.550	80.760	76.800	80.520
115	66.540	69.840	68.115	67.755	68.385
120	61.680	58.380	58.065	58.050	57.105
125	56.025	53.565	54.960	51.570	52.035
130	52.275	51.585	50.730	49.110	48.480
135	53.235	51.180	51.510	48.825	50.715
140	55.080	56.775	55.260	54.450	55.080
145	67.410	62.820	64.080	60.135	65.565
150	76.740	75.990	73.380	73.155	74.130
155	76.950	78.405	77.910	74.295	81.570
160	72.075	81.090	76.560	81.570	75.390
165	73.890	81.120	78.615	75.780	76.710
170	72.645	76.875	68.220	76.650	74.025
175	56.055	56.070	58.395	64.485	78.495
180	60.690	60.690	60.690	60.690	60.690

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3301.61	N.A.	28.10
0-30	6135.00	N.A.	52.20
0-40	8427.61	N.A.	71.70
0-60	10594.68	N.A.	90.10
0-80	11238.00	N.A.	95.60
0-90	11343.03	N.A.	96.50
10-90	10418.62	N.A.	88.60
20-40	5126.00	N.A.	43.60
20-50	6520.99	N.A.	55.50
40-70	2594.21	N.A.	22.10
60-80	643.32	N.A.	5.50
70-80	216.18	N.A.	1.80
80-90	105.02	N.A.	0.90
90-110	154.46	N.A.	1.30
90-120	222.28	N.A.	1.90
90-130	270.78	N.A.	2.30
90-150	351.05	N.A.	3.00
90-180	414.75	N.A.	3.50
110-180	260.28	N.A.	2.20
0-180	11757.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	924.41
10-20	2377.2
20-30	2833.39
30-40	2292.61
40-50	1394.99
50-60	772.08
60-70	427.14
70-80	216.18
80-90	105.02
90-100	73.10
100-110	81.36
110-120	67.82
120-130	48.50
130-140	40.15
140-150	40.12
150-160	35.56
160-170	21.84
170-180	6.30

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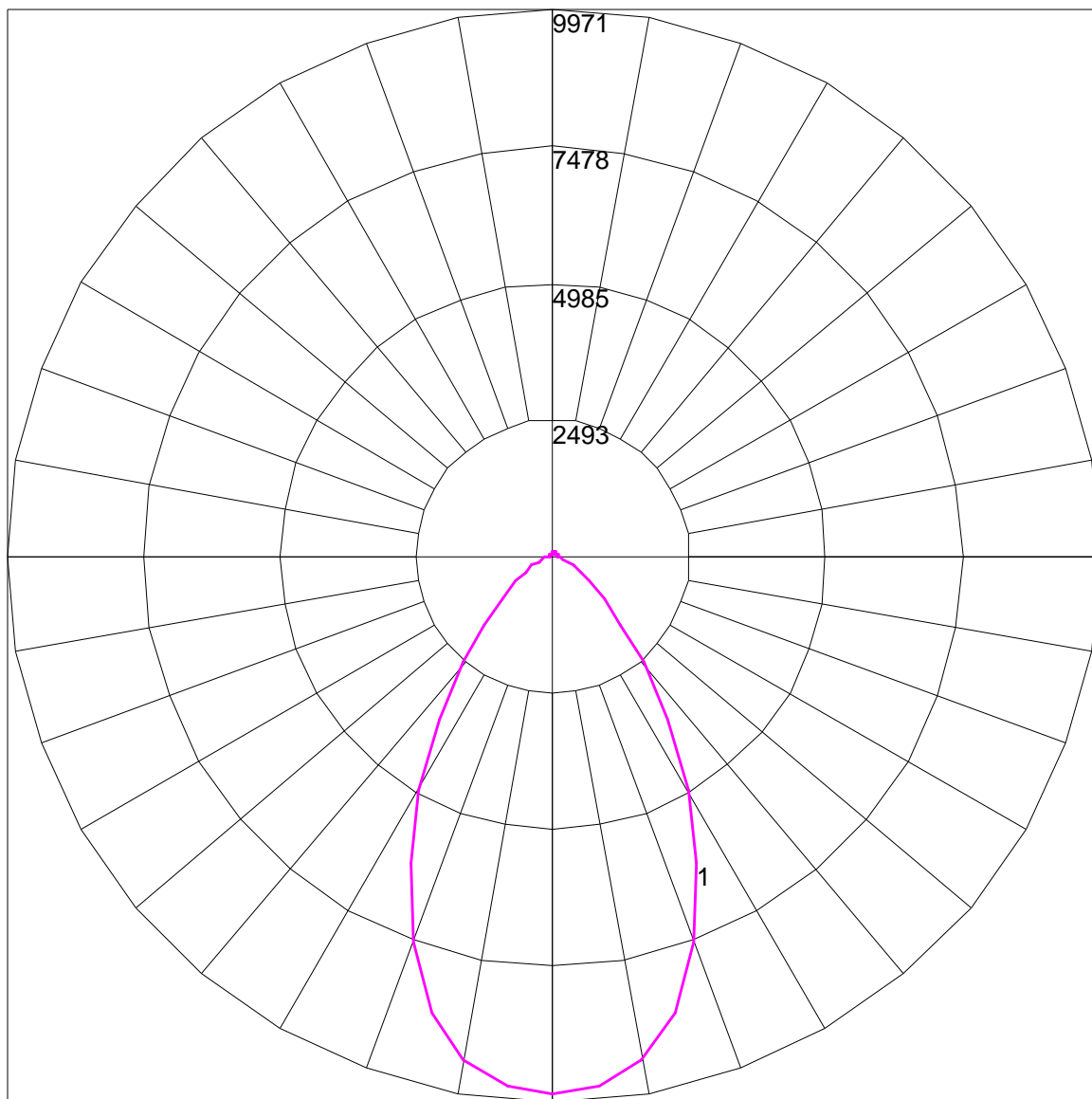
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	111	107	104	102	108	105	102	100	100	98	96	96	94	92	92	90	89	87
2	104	98	93	89	101	96	91	87	92	88	85	88	85	82	85	82	80	78
3	97	89	83	78	95	88	82	77	84	80	76	81	77	74	79	75	72	71
4	91	82	75	70	89	81	74	70	78	72	68	75	71	67	73	69	66	64
5	86	76	69	63	83	74	68	63	72	66	62	70	65	61	68	64	60	58
6	80	70	63	58	79	69	62	57	67	61	57	65	60	56	63	59	55	54
7	76	65	58	53	74	64	57	53	62	56	52	61	56	52	59	55	51	49
8	72	61	54	49	70	60	53	49	58	52	48	57	52	48	56	51	47	46
9	68	57	50	45	66	56	49	45	55	49	45	53	48	44	52	48	44	42
10	64	53	47	42	63	53	46	42	51	46	42	50	45	41	49	45	41	40

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POLAR GRAPH



Maximum Candela = 9970.59 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)