

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRXXX22LX-100L35KEX-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-100L-35K
[MANUFAC] Spectrum Lighting
[LUMCAT] PRxxx22LX-100L-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	10051
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	87.9
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	2636	2661	2665
55	2283	2301	2313
65	1924	1932	1939
75	1616	1616	1618
85	1379	1376	1380

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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	5586.204	5586.204	5586.204	5586.204	5586.204	5586.204	5586.204	5586.204	5586.204	5586.204
2.5	5592.931	5572.749	5586.673	5585.891	5588.394	5585.891	5586.673	5572.749	5592.931	5572.749
5.0	5615.773	5604.039	5611.549	5605.916	5609.828	5605.916	5611.549	5604.039	5615.773	5604.039
7.5	5670.843	5652.382	5679.604	5671.000	5682.264	5671.000	5679.604	5652.382	5670.843	5652.382
10.0	5695.562	5693.372	5709.330	5701.507	5692.590	5701.507	5709.330	5693.372	5695.562	5693.372
12.5	5657.388	5668.340	5682.420	5656.450	5661.143	5656.450	5682.420	5668.340	5657.388	5668.340
15.0	5554.601	5562.110	5579.007	5561.954	5562.736	5561.954	5579.007	5562.110	5554.601	5562.110
17.5	5368.895	5378.751	5377.656	5363.262	5358.882	5363.262	5377.656	5378.751	5368.895	5378.751
20.0	5163.319	5159.095	5172.080	5166.761	5175.053	5166.761	5172.080	5159.095	5163.319	5159.095
22.5	4959.465	4962.125	4975.266	4968.070	4975.736	4968.070	4975.266	4962.125	4959.465	4962.125
25.0	4737.462	4743.095	4749.978	4760.773	4759.991	4760.773	4749.978	4743.095	4737.462	4743.095
27.5	4471.184	4474.470	4489.802	4487.455	4482.762	4487.455	4489.802	4474.470	4471.184	4474.470
30.0	4223.681	4228.687	4231.190	4231.972	4229.939	4231.972	4231.190	4228.687	4223.681	4228.687
32.5	3977.585	3981.965	3982.591	3981.965	3977.272	3981.965	3982.591	3981.965	3977.585	3981.965
35.0	3668.440	3654.046	3660.461	3661.243	3677.044	3661.243	3660.461	3654.046	3668.440	3654.046
37.5	2852.083	2851.927	2844.887	2826.269	2831.432	2826.269	2844.887	2851.927	2852.083	2851.927
40.0	1930.124	1924.491	1912.288	1916.356	1930.593	1916.356	1912.288	1924.491	1930.124	1924.491
42.5	1102.034	1094.524	1093.742	1096.558	1088.579	1096.558	1093.742	1094.524	1102.034	1094.524
45.0	811.037	815.417	818.859	818.233	819.954	818.233	818.859	815.417	811.037	815.417
47.5	775.992	780.060	782.719	781.781	785.066	781.781	782.719	780.060	775.992	780.060
50.0	742.512	746.110	748.770	747.362	751.429	747.362	748.770	746.110	742.512	746.110
52.5	710.127	713.568	716.228	714.976	719.514	714.976	716.228	713.568	710.127	713.568
55.0	676.646	679.306	681.966	680.557	685.564	680.557	681.966	679.306	676.646	679.306
57.5	640.819	643.166	645.513	644.105	649.111	644.105	645.513	643.166	640.819	643.166
60.0	604.210	605.774	607.495	606.244	610.311	606.244	607.495	605.774	604.210	605.774
62.5	567.288	569.165	570.104	568.852	572.294	568.852	570.104	569.165	567.288	569.165
65.0	531.304	532.712	533.494	532.556	535.372	532.556	533.494	532.712	531.304	532.712
67.5	496.416	497.980	498.137	497.667	499.701	497.667	498.137	497.980	496.416	497.980
70.0	462.936	464.500	464.344	464.187	465.908	464.187	464.344	464.500	462.936	464.500
72.5	431.333	431.958	431.176	431.176	432.584	431.176	431.176	431.958	431.333	431.958
75.0	399.730	400.512	399.886	399.886	400.199	399.886	399.886	400.512	399.730	400.512
77.5	370.317	370.943	370.317	370.786	370.317	370.786	370.317	370.943	370.317	370.943
80.0	343.095	343.564	343.251	343.564	343.564	343.564	343.251	343.564	343.095	343.564
82.5	317.437	317.906	317.281	318.219	317.593	318.219	317.281	317.906	317.437	317.906
85.0	291.310	291.153	290.528	292.249	291.466	292.249	290.528	291.153	291.310	291.153
87.5	266.747	266.121	265.652	266.278	265.652	266.278	265.652	266.121	266.747	266.121
90.0	248.599	248.286	248.130	249.381	248.286	249.381	248.130	248.286	248.599	248.286
92.5	233.736	233.580	232.954	233.893	233.267	233.893	232.954	233.580	233.736	233.580
95.0	219.499	219.656	219.343	219.969	219.656	219.969	219.343	219.656	219.499	219.656
97.5	207.296	206.514	206.827	207.296	206.827	207.296	206.827	206.514	207.296	206.514
100.0	196.032	195.875	195.875	196.032	195.250	196.032	195.875	195.875	196.032	195.875
102.5	185.863	185.550	185.863	185.550	185.706	185.550	185.863	185.550	185.863	185.550
105.0	176.945	177.101	176.788	176.945	176.476	176.945	176.788	177.101	176.945	177.101
107.5	168.497	168.497	168.497	168.966	168.340	168.966	168.497	168.497	168.497	168.497
110.0	161.769	161.769	161.456	161.926	161.613	161.926	161.456	161.769	161.769	161.769
112.5	155.511	155.355	155.355	155.511	155.042	155.511	155.355	155.355	155.511	155.355
115.0	150.036	149.879	149.879	150.192	149.879	150.192	149.879	149.879	150.036	149.879
117.5	145.655	145.342	145.342	145.498	145.498	145.498	145.342	145.342	145.655	145.342
120.0	141.900	141.900	141.900	142.057	141.900	142.057	141.900	141.900	141.900	141.900
122.5	139.240	139.240	139.240	139.553	139.397	139.553	139.240	139.240	139.240	139.240
125.0	137.520	137.520	137.520	137.676	137.520	137.676	137.520	137.520	137.520	137.520

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127.5	136.581	136.581	136.581	136.737	136.581	136.737	136.581	136.581	136.581	136.581
130.0	136.268	136.268	136.268	136.581	136.424	136.581	136.268	136.268	136.268	136.268
132.5	136.737	137.050	136.894	137.207	137.050	137.207	136.894	137.050	136.737	137.050
135.0	137.832	137.832	137.832	137.989	137.832	137.989	137.832	137.832	137.832	137.832
137.5	139.240	139.240	139.397	139.397	139.240	139.397	139.397	139.240	139.240	139.240
140.0	141.118	141.274	141.587	141.587	141.431	141.587	141.587	141.274	141.118	141.274
142.5	143.934	143.934	144.247	144.247	143.934	144.247	144.247	143.934	143.934	143.934
145.0	146.750	146.907	147.219	147.219	146.594	147.219	147.219	146.907	146.750	146.907
147.5	150.036	150.192	150.505	150.036	149.566	150.036	150.505	150.192	150.036	150.192
150.0	153.634	153.634	153.634	153.008	152.852	153.008	153.634	153.634	153.634	153.634
152.5	155.668	156.606	156.919	155.981	155.042	155.981	156.919	156.606	155.668	156.606
155.0	155.511	158.640	159.110	158.327	155.198	158.327	159.110	158.640	155.511	158.640
157.5	157.232	159.579	161.300	160.048	156.606	160.048	161.300	159.579	157.232	159.579
160.0	158.640	159.423	161.769	159.892	158.327	159.892	161.769	159.423	158.640	159.423
162.5	158.171	157.389	160.048	157.858	158.484	157.858	160.048	157.389	158.171	157.389
165.0	155.981	154.416	156.137	154.729	156.137	154.729	156.137	154.416	155.981	154.416
167.5	151.913	149.879	150.348	150.192	151.600	150.192	150.348	149.879	151.913	149.879
170.0	144.873	143.152	142.839	143.308	144.090	143.308	142.839	143.152	144.873	143.152
172.5	137.676	135.955	136.894	136.581	136.268	136.581	136.894	135.955	137.676	135.955
175.0	138.928	138.771	140.961	139.710	137.050	139.710	140.961	138.771	138.928	138.771
177.5	147.063	148.002	150.036	148.158	144.716	148.158	150.036	148.002	147.063	148.002
180.0	152.000	152.000	152.000	152.000	152.000	152.000	152.000	152.000	152.000	152.000

**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	5586.204	5586.204	5586.204	5586.204	5586.204	5586.204	5586.204
2.5	5586.673	5585.891	5588.394	5585.891	5586.673	5572.749	5592.931
5.0	5611.549	5605.916	5609.828	5605.916	5611.549	5604.039	5615.773
7.5	5679.604	5671.000	5682.264	5671.000	5679.604	5652.382	5670.843
10.0	5709.330	5701.507	5692.590	5701.507	5709.330	5693.372	5695.562
12.5	5682.420	5656.450	5661.143	5656.450	5682.420	5668.340	5657.388
15.0	5579.007	5561.954	5562.736	5561.954	5579.007	5562.110	5554.601
17.5	5377.656	5363.262	5358.882	5363.262	5377.656	5378.751	5368.895
20.0	5172.080	5166.761	5175.053	5166.761	5172.080	5159.095	5163.319
22.5	4975.266	4968.070	4975.736	4968.070	4975.266	4962.125	4959.465
25.0	4749.978	4760.773	4759.991	4760.773	4749.978	4743.095	4737.462
27.5	4489.802	4487.455	4482.762	4487.455	4489.802	4474.470	4471.184
30.0	4231.190	4231.972	4229.939	4231.972	4231.190	4228.687	4223.681
32.5	3982.591	3981.965	3977.272	3981.965	3982.591	3981.965	3977.585
35.0	3660.461	3661.243	3677.044	3661.243	3660.461	3654.046	3668.440
37.5	2844.887	2826.269	2831.432	2826.269	2844.887	2851.927	2852.083
40.0	1912.288	1916.356	1930.593	1916.356	1912.288	1924.491	1930.124
42.5	1093.742	1096.558	1088.579	1096.558	1093.742	1094.524	1102.034
45.0	818.859	818.233	819.954	818.233	818.859	815.417	811.037
47.5	782.719	781.781	785.066	781.781	782.719	780.060	775.992
50.0	748.770	747.362	751.429	747.362	748.770	746.110	742.512
52.5	716.228	714.976	719.514	714.976	716.228	713.568	710.127
55.0	681.966	680.557	685.564	680.557	681.966	679.306	676.646
57.5	645.513	644.105	649.111	644.105	645.513	643.166	640.819
60.0	607.495	606.244	610.311	606.244	607.495	605.774	604.210
62.5	570.104	568.852	572.294	568.852	570.104	569.165	567.288
65.0	533.494	532.556	535.372	532.556	533.494	532.712	531.304

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CANDELA TABULATION - (Cont.)

67.5	498.137	497.667	499.701	497.667	498.137	497.980	496.416
70.0	464.344	464.187	465.908	464.187	464.344	464.500	462.936
72.5	431.176	431.176	432.584	431.176	431.176	431.958	431.333
75.0	399.886	399.886	400.199	399.886	399.886	400.512	399.730
77.5	370.317	370.786	370.317	370.786	370.317	370.943	370.317
80.0	343.251	343.564	343.564	343.564	343.251	343.564	343.095
82.5	317.281	318.219	317.593	318.219	317.281	317.906	317.437
85.0	290.528	292.249	291.466	292.249	290.528	291.153	291.310
87.5	265.652	266.278	265.652	266.278	265.652	266.121	266.747
90.0	248.130	249.381	248.286	249.381	248.130	248.286	248.599
92.5	232.954	233.893	233.267	233.893	232.954	233.580	233.736
95.0	219.343	219.969	219.656	219.969	219.343	219.656	219.499
97.5	206.827	207.296	206.827	207.296	206.827	206.514	207.296
100.0	195.875	196.032	195.250	196.032	195.875	195.875	196.032
102.5	185.863	185.550	185.706	185.550	185.863	185.550	185.863
105.0	176.788	176.945	176.476	176.945	176.788	177.101	176.945
107.5	168.497	168.966	168.340	168.966	168.497	168.497	168.497
110.0	161.456	161.926	161.613	161.926	161.456	161.769	161.769
112.5	155.355	155.511	155.042	155.511	155.355	155.355	155.511
115.0	149.879	150.192	149.879	150.192	149.879	149.879	150.036
117.5	145.342	145.498	145.498	145.498	145.342	145.342	145.655
120.0	141.900	142.057	141.900	142.057	141.900	141.900	141.900
122.5	139.240	139.553	139.397	139.553	139.240	139.240	139.240
125.0	137.520	137.676	137.520	137.676	137.520	137.520	137.520
127.5	136.581	136.737	136.581	136.737	136.581	136.581	136.581
130.0	136.268	136.581	136.424	136.581	136.268	136.268	136.268
132.5	136.894	137.207	137.050	137.207	136.894	137.050	136.737
135.0	137.832	137.989	137.832	137.989	137.832	137.832	137.832
137.5	139.397	139.397	139.240	139.397	139.397	139.240	139.240
140.0	141.587	141.587	141.431	141.587	141.587	141.274	141.118
142.5	144.247	144.247	143.934	144.247	144.247	143.934	143.934
145.0	147.219	147.219	146.594	147.219	147.219	146.907	146.750
147.5	150.505	150.036	149.566	150.036	150.505	150.192	150.036
150.0	153.634	153.008	152.852	153.008	153.634	153.634	153.634
152.5	156.919	155.981	155.042	155.981	156.919	156.606	155.668
155.0	159.110	158.327	155.198	158.327	159.110	158.640	155.511
157.5	161.300	160.048	156.606	160.048	161.300	159.579	157.232
160.0	161.769	159.892	158.327	159.892	161.769	159.423	158.640
162.5	160.048	157.858	158.484	157.858	160.048	157.389	158.171
165.0	156.137	154.729	156.137	154.729	156.137	154.416	155.981
167.5	150.348	150.192	151.600	150.192	150.348	149.879	151.913
170.0	142.839	143.308	144.090	143.308	142.839	143.152	144.873
172.5	136.894	136.581	136.268	136.581	136.894	135.955	137.676
175.0	140.961	139.710	137.050	139.710	140.961	138.771	138.928
177.5	150.036	148.158	144.716	148.158	150.036	148.002	147.063
180.0	152.000	152.000	152.000	152.000	152.000	152.000	152.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2092.71	N.A.	20.80
0-30	4266.79	N.A.	42.50
0-40	6368.29	N.A.	63.40
0-60	7746.06	N.A.	77.10
0-80	8699.52	N.A.	86.60
0-90	9018.84	N.A.	89.70
10-90	8479.74	N.A.	84.40
20-40	4275.58	N.A.	42.50
20-50	5045.15	N.A.	50.20
40-70	1906.92	N.A.	19.00
60-80	953.47	N.A.	9.50
70-80	424.31	N.A.	4.20
80-90	319.31	N.A.	3.20
90-110	428.61	N.A.	4.30
90-120	578.28	N.A.	5.80
90-130	702.29	N.A.	7.00
90-150	901.62	N.A.	9.00
90-180	1031.77	N.A.	10.30
110-180	603.15	N.A.	6.00
0-180	10050.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	539.10
10-20	1553.61
20-30	2174.08
30-40	2101.5
40-50	769.56
50-60	608.21
60-70	529.15
70-80	424.31
80-90	319.31
90-100	240.72
100-110	187.90
110-120	149.67
120-130	124.01
130-140	107.03
140-150	92.30
150-160	72.83
160-170	43.88
170-180	13.43

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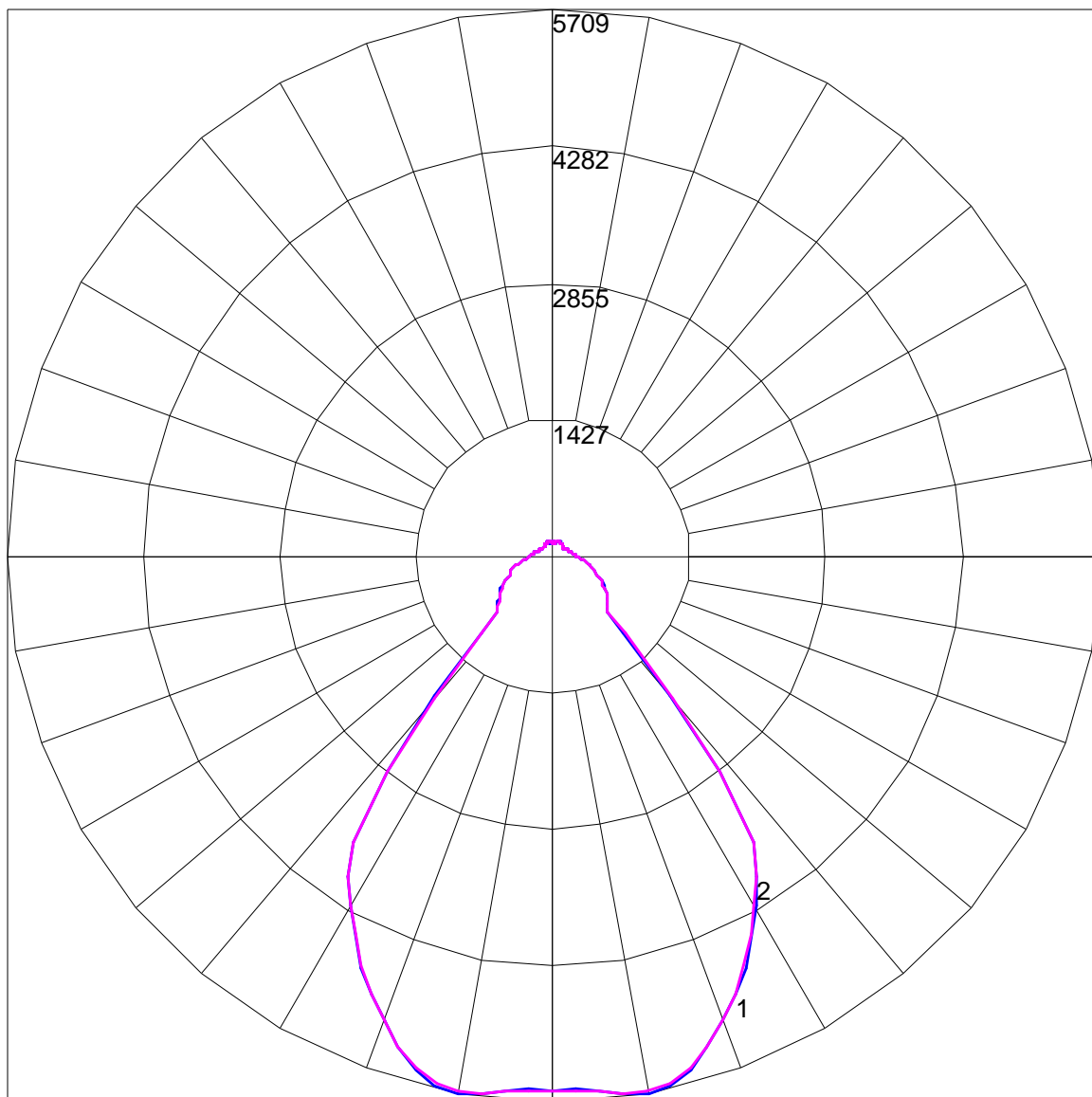
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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-100L35KEX-DF22.IES

POLAR GRAPH



Maximum Candela = 5709.33 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)