

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PRXXX22LX-65L35KEX-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-35K

[MANUFAC] Spectrum Lighting

[LUMCAT] PRxxx22LX-65L-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	6700
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	59
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	1757	1774	1776
55	1522	1534	1542
65	1283	1288	1293
75	1077	1077	1078
85	920	917	920

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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	3723.779	3723.779	3723.779	3723.779	3723.779	3723.779	3723.779	3723.779	3723.779	3723.779
2.5	3728.263	3714.810	3724.091	3723.570	3725.239	3723.570	3724.091	3714.810	3728.263	3714.810
5.0	3743.489	3735.668	3740.674	3736.919	3739.526	3736.919	3740.674	3735.668	3743.489	3735.668
7.5	3780.200	3767.893	3786.040	3780.304	3787.813	3780.304	3786.040	3767.893	3780.200	3767.893
10.0	3796.677	3795.217	3805.855	3800.640	3794.696	3800.640	3805.855	3795.217	3796.677	3795.217
12.5	3771.231	3778.531	3787.917	3770.605	3773.734	3770.605	3787.917	3778.531	3771.231	3778.531
15.0	3702.712	3707.718	3718.981	3707.614	3708.135	3707.614	3718.981	3707.718	3702.712	3707.718
17.5	3578.920	3585.490	3584.760	3575.165	3572.245	3575.165	3584.760	3585.490	3578.920	3585.490
20.0	3441.883	3439.067	3447.723	3444.177	3449.705	3444.177	3447.723	3439.067	3441.883	3439.067
22.5	3305.993	3307.766	3316.526	3311.729	3316.839	3311.729	3316.526	3307.766	3305.993	3307.766
25.0	3158.005	3161.760	3166.349	3173.545	3173.023	3173.545	3166.349	3161.760	3158.005	3161.760
27.5	2980.504	2982.694	2992.914	2991.350	2988.221	2991.350	2992.914	2982.694	2980.504	2982.694
30.0	2815.517	2818.854	2820.523	2821.044	2819.689	2821.044	2820.523	2818.854	2815.517	2818.854
32.5	2651.469	2654.389	2654.806	2654.389	2651.260	2654.389	2654.806	2654.389	2651.469	2654.389
35.0	2445.392	2435.797	2440.073	2440.595	2451.128	2440.595	2440.073	2435.797	2445.392	2435.797
37.5	1901.207	1901.102	1896.409	1883.999	1887.440	1883.999	1896.409	1901.102	1901.207	1901.102
40.0	1286.626	1282.871	1274.737	1277.448	1286.939	1277.448	1274.737	1282.871	1286.626	1282.871
42.5	734.619	729.613	729.091	730.969	725.650	730.969	729.091	729.613	734.619	729.613
45.0	540.639	543.559	545.854	545.437	546.584	545.437	545.854	543.559	540.639	543.559
47.5	517.278	519.990	521.763	521.137	523.327	521.137	521.763	519.990	517.278	519.990
50.0	494.960	497.359	499.132	498.193	500.905	498.193	499.132	497.359	494.960	497.359
52.5	473.372	475.667	477.440	476.605	479.630	476.605	477.440	475.667	473.372	475.667
55.0	451.054	452.827	454.600	453.661	456.999	453.661	454.600	452.827	451.054	452.827
57.5	427.172	428.736	430.301	429.362	432.699	429.362	430.301	428.736	427.172	428.736
60.0	402.768	403.811	404.958	404.124	406.835	404.124	404.958	403.811	402.768	403.811
62.5	378.156	379.407	380.033	379.198	381.493	379.198	380.033	379.407	378.156	379.407
65.0	354.169	355.107	355.629	355.003	356.880	355.003	355.629	355.107	354.169	355.107
67.5	330.912	331.955	332.059	331.746	333.102	331.746	332.059	331.955	330.912	331.955
70.0	308.594	309.637	309.533	309.428	310.576	309.428	309.533	309.637	308.594	309.637
72.5	287.528	287.945	287.423	287.423	288.362	287.423	287.423	287.945	287.528	287.945
75.0	266.461	266.982	266.565	266.565	266.774	266.565	266.565	266.982	266.461	266.982
77.5	246.854	247.272	246.854	247.167	246.854	247.167	246.854	247.272	246.854	247.272
80.0	228.708	229.021	228.812	229.021	229.021	229.021	228.812	229.021	228.708	229.021
82.5	211.604	211.917	211.500	212.126	211.709	212.126	211.500	211.917	211.604	211.917
85.0	194.188	194.084	193.667	194.814	194.292	194.814	193.667	194.084	194.188	194.084
87.5	177.814	177.397	177.084	177.502	177.084	177.502	177.084	177.397	177.814	177.397
90.0	165.717	165.508	165.404	166.238	165.508	166.238	165.404	165.508	165.717	165.508
92.5	155.809	155.705	155.288	155.914	155.496	155.914	155.288	155.705	155.809	155.705
95.0	146.319	146.423	146.215	146.632	146.423	146.632	146.215	146.423	146.319	146.423
97.5	138.184	137.663	137.871	138.184	137.871	138.184	137.663	137.871	138.184	137.663
100.0	130.675	130.571	130.571	130.675	130.154	130.675	130.571	130.571	130.675	130.571
102.5	123.897	123.688	123.897	123.688	123.792	123.688	123.897	123.688	123.897	123.688
105.0	117.952	118.056	117.848	117.952	117.639	117.952	117.848	118.056	117.952	118.056
107.5	112.320	112.320	112.320	112.633	112.216	112.633	112.320	112.320	112.320	112.320
110.0	107.836	107.836	107.627	107.940	107.732	107.940	107.627	107.836	107.836	107.836
112.5	103.664	103.560	103.560	103.664	103.351	103.664	103.560	103.560	103.664	103.560
115.0	100.014	99.910	99.910	100.118	99.910	100.118	99.910	99.910	100.014	99.910
117.5	97.094	96.885	96.885	96.990	96.990	96.990	96.885	96.885	97.094	96.885
120.0	94.591	94.591	94.591	94.695	94.591	94.695	94.591	94.591	94.591	94.591
122.5	92.818	92.818	92.818	93.027	92.922	93.027	92.818	92.818	92.818	92.818
125.0	91.671	91.671	91.671	91.775	91.671	91.775	91.671	91.671	91.671	91.671

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127.5	91.045	91.045	91.045	91.149	91.045	91.149	91.045	91.045	91.045	91.045
130.0	90.837	90.837	90.837	91.045	90.941	91.045	90.837	90.837	90.837	90.837
132.5	91.149	91.358	91.254	91.462	91.358	91.462	91.254	91.358	91.149	91.358
135.0	91.879	91.879	91.879	91.984	91.879	91.984	91.879	91.879	91.879	91.879
137.5	92.818	92.818	92.922	92.922	92.818	92.922	92.922	92.818	92.818	92.818
140.0	94.070	94.174	94.382	94.382	94.278	94.382	94.382	94.174	94.070	94.174
142.5	95.947	95.947	96.155	96.155	95.947	96.155	96.155	95.947	95.947	95.947
145.0	97.824	97.928	98.137	98.137	97.720	98.137	98.137	97.928	97.824	97.928
147.5	100.014	100.118	100.327	100.014	99.701	100.014	100.327	100.118	100.014	100.118
150.0	102.413	102.413	102.413	101.996	101.891	101.996	102.413	102.413	102.413	102.413
152.5	103.769	104.394	104.603	103.977	103.351	103.977	104.603	104.394	103.769	104.394
155.0	103.664	105.750	106.063	105.541	103.456	105.541	106.063	105.750	103.664	105.750
157.5	104.811	106.376	107.523	106.689	104.394	106.689	107.523	106.376	104.811	106.376
160.0	105.750	106.272	107.836	106.584	105.541	106.584	107.836	106.272	105.750	106.272
162.5	105.437	104.916	106.689	105.229	105.646	105.229	106.689	104.916	105.437	104.916
165.0	103.977	102.934	104.081	103.143	104.081	103.143	104.081	102.934	103.977	102.934
167.5	101.266	99.910	100.223	100.118	101.057	100.118	100.223	99.910	101.266	99.910
170.0	96.573	95.425	95.217	95.530	96.051	95.530	95.217	95.425	96.573	95.425
172.5	91.775	90.628	91.254	91.045	90.837	91.045	91.254	90.628	91.775	90.628
175.0	92.610	92.505	93.965	93.131	91.358	93.131	93.965	92.505	92.610	92.505
177.5	98.033	98.658	100.014	98.763	96.468	98.763	100.014	98.658	98.033	98.658
180.0	101.000	101.000	101.000	101.000	101.000	101.000	101.000	101.000	101.000	101.000

**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	3723.779	3723.779	3723.779	3723.779	3723.779	3723.779	3723.779
2.5	3724.091	3723.570	3725.239	3723.570	3724.091	3714.810	3728.263
5.0	3740.674	3736.919	3739.526	3736.919	3740.674	3735.668	3743.489
7.5	3786.040	3780.304	3787.813	3780.304	3786.040	3767.893	3780.200
10.0	3805.855	3800.640	3794.696	3800.640	3805.855	3795.217	3796.677
12.5	3787.917	3770.605	3773.734	3770.605	3787.917	3778.531	3771.231
15.0	3718.981	3707.614	3708.135	3707.614	3718.981	3707.718	3702.712
17.5	3584.760	3575.165	3572.245	3575.165	3584.760	3585.490	3578.920
20.0	3447.723	3444.177	3449.705	3444.177	3447.723	3439.067	3441.883
22.5	3316.526	3311.729	3316.839	3311.729	3316.526	3307.766	3305.993
25.0	3166.349	3173.545	3173.023	3173.545	3166.349	3161.760	3158.005
27.5	2992.914	2991.350	2988.221	2991.350	2992.914	2982.694	2980.504
30.0	2820.523	2821.044	2819.689	2821.044	2820.523	2818.854	2815.517
32.5	2654.806	2654.389	2651.260	2654.389	2654.806	2654.389	2651.469
35.0	2440.073	2440.595	2451.128	2440.595	2440.073	2435.797	2445.392
37.5	1896.409	1883.999	1887.440	1883.999	1896.409	1901.102	1901.207
40.0	1274.737	1277.448	1286.939	1277.448	1274.737	1282.871	1286.626
42.5	729.091	730.969	725.650	730.969	729.091	729.613	734.619
45.0	545.854	545.437	546.584	545.437	545.854	543.559	540.639
47.5	521.763	521.137	523.327	521.137	521.763	519.990	517.278
50.0	499.132	498.193	500.905	498.193	499.132	497.359	494.960
52.5	477.440	476.605	479.630	476.605	477.440	475.667	473.372
55.0	454.600	453.661	456.999	453.661	454.600	452.827	451.054
57.5	430.301	429.362	432.699	429.362	430.301	428.736	427.172
60.0	404.958	404.124	406.835	404.124	404.958	403.811	402.768
62.5	380.033	379.198	381.493	379.198	380.033	379.407	378.156
65.0	355.629	355.003	356.880	355.003	355.629	355.107	354.169

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67.5	332.059	331.746	333.102	331.746	332.059	331.955	330.912
70.0	309.533	309.428	310.576	309.428	309.533	309.637	308.594
72.5	287.423	287.423	288.362	287.423	287.423	287.945	287.528
75.0	266.565	266.565	266.774	266.565	266.565	266.982	266.461
77.5	246.854	247.167	246.854	247.167	246.854	247.272	246.854
80.0	228.812	229.021	229.021	229.021	228.812	229.021	228.708
82.5	211.500	212.126	211.709	212.126	211.500	211.917	211.604
85.0	193.667	194.814	194.292	194.814	193.667	194.084	194.188
87.5	177.084	177.502	177.084	177.502	177.084	177.397	177.814
90.0	165.404	166.238	165.508	166.238	165.404	165.508	165.717
92.5	155.288	155.914	155.496	155.914	155.288	155.705	155.809
95.0	146.215	146.632	146.423	146.632	146.215	146.423	146.319
97.5	137.871	138.184	137.871	138.184	137.871	137.663	138.184
100.0	130.571	130.675	130.154	130.675	130.571	130.571	130.675
102.5	123.897	123.688	123.792	123.688	123.897	123.688	123.897
105.0	117.848	117.952	117.639	117.952	117.848	118.056	117.952
107.5	112.320	112.633	112.216	112.633	112.320	112.320	112.320
110.0	107.627	107.940	107.732	107.940	107.627	107.836	107.836
112.5	103.560	103.664	103.351	103.664	103.560	103.560	103.664
115.0	99.910	100.118	99.910	100.118	99.910	99.910	100.014
117.5	96.885	96.990	96.990	96.990	96.885	96.885	97.094
120.0	94.591	94.695	94.591	94.695	94.591	94.591	94.591
122.5	92.818	93.027	92.922	93.027	92.818	92.818	92.818
125.0	91.671	91.775	91.671	91.775	91.671	91.671	91.671
127.5	91.045	91.149	91.045	91.149	91.045	91.045	91.045
130.0	90.837	91.045	90.941	91.045	90.837	90.837	90.837
132.5	91.254	91.462	91.358	91.462	91.254	91.358	91.149
135.0	91.879	91.984	91.879	91.984	91.879	91.879	91.879
137.5	92.922	92.922	92.818	92.922	92.922	92.818	92.818
140.0	94.382	94.382	94.278	94.382	94.382	94.174	94.070
142.5	96.155	96.155	95.947	96.155	96.155	95.947	95.947
145.0	98.137	98.137	97.720	98.137	98.137	97.928	97.824
147.5	100.327	100.014	99.701	100.014	100.327	100.118	100.014
150.0	102.413	101.996	101.891	101.996	102.413	102.413	102.413
152.5	104.603	103.977	103.351	103.977	104.603	104.394	103.769
155.0	106.063	105.541	103.456	105.541	106.063	105.750	103.664
157.5	107.523	106.689	104.394	106.689	107.523	106.376	104.811
160.0	107.836	106.584	105.541	106.584	107.836	106.272	105.750
162.5	106.689	105.229	105.646	105.229	106.689	104.916	105.437
165.0	104.081	103.143	104.081	103.143	104.081	102.934	103.977
167.5	100.223	100.118	101.057	100.118	100.223	99.910	101.266
170.0	95.217	95.530	96.051	95.530	95.217	95.425	96.573
172.5	91.254	91.045	90.837	91.045	91.254	90.628	91.775
175.0	93.965	93.131	91.358	93.131	93.965	92.505	92.610
177.5	100.014	98.763	96.468	98.763	100.014	98.658	98.033
180.0	101.000	101.000	101.000	101.000	101.000	101.000	101.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1395.01	N.A.	20.80
0-30	2844.25	N.A.	42.50
0-40	4245.12	N.A.	63.40
0-60	5163.54	N.A.	77.10
0-80	5799.12	N.A.	86.60
0-90	6011.98	N.A.	89.70
10-90	5652.61	N.A.	84.40
20-40	2850.12	N.A.	42.50
20-50	3363.11	N.A.	50.20
40-70	1271.16	N.A.	19.00
60-80	635.58	N.A.	9.50
70-80	282.85	N.A.	4.20
80-90	212.85	N.A.	3.20
90-110	285.72	N.A.	4.30
90-120	385.48	N.A.	5.80
90-130	468.15	N.A.	7.00
90-150	601.02	N.A.	9.00
90-180	687.78	N.A.	10.30
110-180	402.06	N.A.	6.00
0-180	6699.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	359.37
10-20	1035.64
20-30	1449.25
30-40	1400.87
40-50	512.99
50-60	405.43
60-70	352.74
70-80	282.85
80-90	212.85
90-100	160.46
100-110	125.25
110-120	99.77
120-130	82.66
130-140	71.35
140-150	61.53
150-160	48.55
160-170	29.25
170-180	8.95

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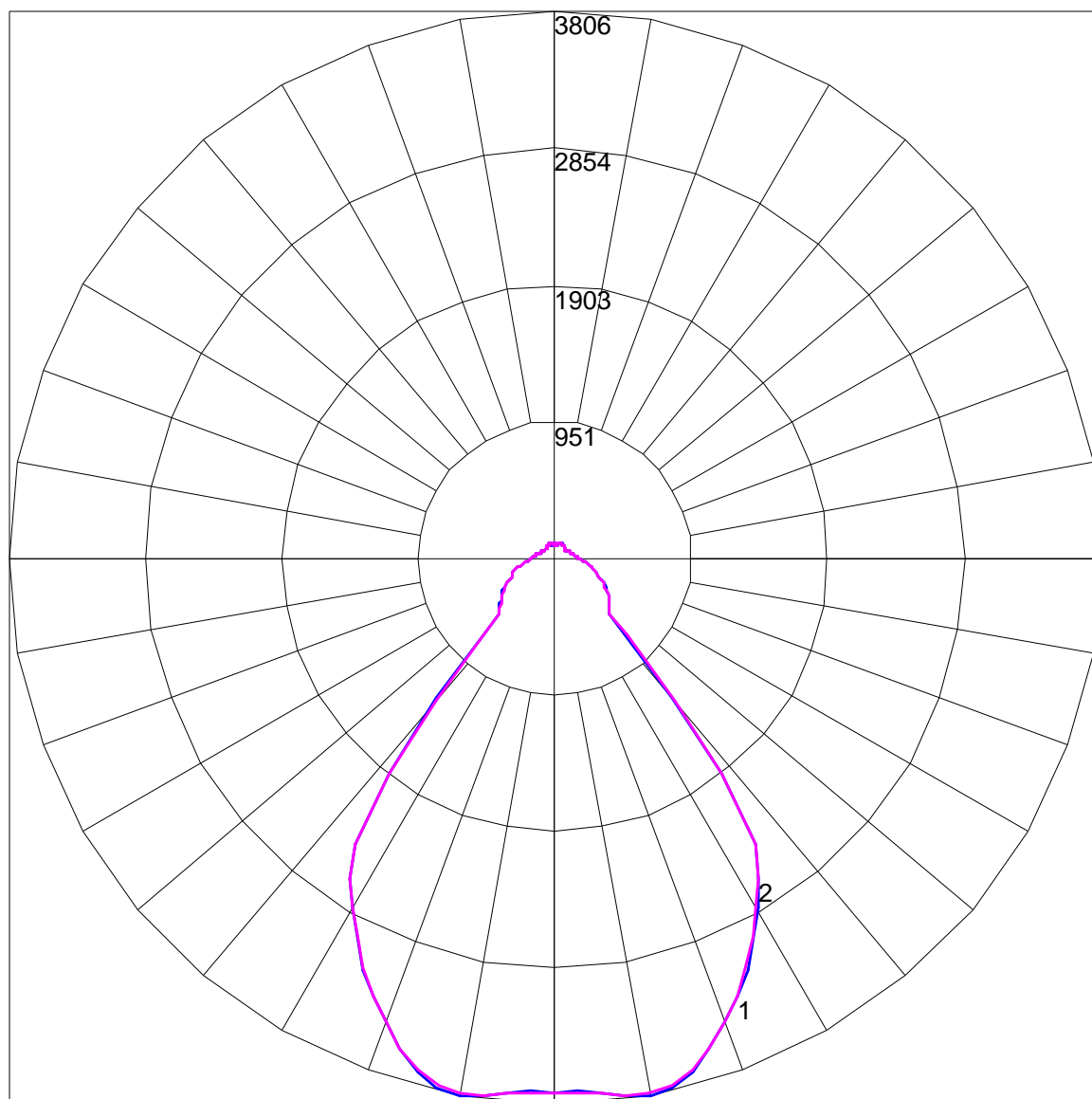
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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-65L35KEX-DF22.IES

POLAR GRAPH



Maximum Candela = 3805.855 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)