

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PRDDH22LEDGV-15L35KEX-PR22-XX-CNFR-XX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] CRT1509031201-001-22\_M-15L-35K  
[TESTLAB] Intertek  
[ISSUE DATE] 10/27/2015  
[UPDATE] 5/4/2018  
[MANUFAC] Spectrum Lighting  
[LUMCAT] PRDDH22LEDGV-15L-35K-EX-PR22-BC22-CNFR-xx  
[LUMINAIRE] LED High Bay, clear prismatic refractor w/ band clamp  
[OTHER] to support, inside frosted conical lens w/ radial prism pattern  
[OTHER] 9.4% Uplight  
[OTHER] 90.6% Downlight  
[OTHER] Nom. 76 Degree Beam Angle (down)  
[LAMP] N/A  
[LAMPCAT] N/A, Gen3  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] CCT Output Multipliers: 40K X 1.03, 30K X 0.985, 27K X 0.971  
[OTHER] This report updated by Spectrum Lighting, scaled from 55L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1148
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.87 ft (Diameter)
Luminous Width (90-270)	1.87 ft (Diameter)
Luminous Height	1.21 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	597	607	599
55	226	207	224
65	100	106	102
75	74	73	73
85	60	57	61

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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>
<b>0.0</b>	522.202	522.202	522.202	522.202	522.202	522.202	522.202	522.202	522.202	522.202
<b>2.5</b>	518.887	520.432	520.693	521.038	519.289	521.038	520.693	520.432	518.887	520.432
<b>5.0</b>	514.155	514.698	514.515	513.133	512.329	513.133	514.515	514.698	514.155	514.698
<b>7.5</b>	526.159	526.405	525.672	520.834	523.359	520.834	525.672	526.405	526.159	526.405
<b>10.0</b>	544.601	554.869	561.971	544.636	539.467	544.636	561.971	554.869	544.601	554.869
<b>12.5</b>	567.119	574.785	577.437	565.794	561.132	565.794	577.437	574.785	567.119	574.785
<b>15.0</b>	596.126	583.763	582.219	585.710	595.005	585.710	582.219	583.763	596.126	583.763
<b>17.5</b>	616.092	587.572	579.842	602.389	618.807	602.389	579.842	587.572	616.092	587.572
<b>20.0</b>	612.608	593.313	577.557	607.594	620.281	607.594	577.557	593.313	612.608	593.313
<b>22.5</b>	590.075	595.858	593.425	587.120	595.562	587.120	593.425	595.858	590.075	595.858
<b>25.0</b>	568.685	591.782	604.872	576.161	568.001	576.161	604.872	591.782	568.685	591.782
<b>27.5</b>	568.318	588.594	587.981	570.921	563.664	570.921	587.981	588.594	568.318	588.594
<b>30.0</b>	544.150	551.611	544.735	545.306	536.328	545.306	544.735	551.611	544.150	551.611
<b>32.5</b>	492.384	489.768	477.870	487.433	482.391	487.433	477.870	489.768	492.384	489.768
<b>35.0</b>	436.585	417.522	409.821	420.583	432.269	420.583	409.821	417.522	436.585	417.522
<b>37.5</b>	369.375	362.964	358.739	362.167	364.819	362.167	358.739	362.964	369.375	362.964
<b>40.0</b>	290.210	314.654	320.416	302.334	294.928	302.334	320.416	314.654	290.210	314.654
<b>42.5</b>	243.896	261.175	267.480	249.948	247.620	249.948	267.480	261.175	243.896	261.175
<b>45.0</b>	196.546	203.902	200.093	199.974	197.244	199.974	200.093	203.902	196.546	203.902
<b>47.5</b>	146.114	158.357	157.066	151.213	148.956	151.213	157.066	158.357	146.114	158.357
<b>50.0</b>	113.778	120.252	121.437	117.579	114.406	117.579	121.437	120.252	113.778	120.252
<b>52.5</b>	90.610	88.946	88.735	90.956	89.637	90.956	88.735	88.946	90.610	88.946
<b>55.0</b>	72.211	67.612	65.962	70.737	71.280	70.737	65.962	67.612	72.211	67.612
<b>57.5</b>	58.148	54.438	52.710	56.145	57.478	56.145	52.710	54.438	58.148	54.438
<b>60.0</b>	47.111	45.496	44.015	45.912	46.927	45.912	44.015	45.496	47.111	45.496
<b>62.5</b>	37.618	37.576	37.964	37.251	37.851	37.251	37.964	37.576	37.618	37.576
<b>65.0</b>	29.740	31.257	31.560	30.685	30.312	30.685	31.560	31.257	29.740	31.257
<b>67.5</b>	25.967	27.300	27.646	26.652	26.235	26.652	27.646	27.300	25.967	27.300
<b>70.0</b>	23.619	24.479	24.860	24.035	23.732	24.035	24.860	24.479	23.619	24.479
<b>72.5</b>	21.510	21.806	22.103	21.595	21.482	21.595	22.103	21.806	21.510	21.806
<b>75.0</b>	19.881	19.303	19.606	19.408	19.705	19.408	19.606	19.303	19.881	19.303
<b>77.5</b>	18.520	17.109	17.363	17.406	18.280	17.406	17.363	17.109	18.520	17.109
<b>80.0</b>	17.046	15.516	15.530	15.981	16.940	15.981	15.530	15.516	17.046	15.516
<b>82.5</b>	15.417	14.563	14.070	15.001	15.544	15.001	14.070	14.563	15.417	14.563
<b>85.0</b>	13.999	13.654	13.118	14.056	14.218	14.056	13.118	13.654	13.999	13.654
<b>87.5</b>	13.661	13.160	12.829	13.209	13.759	13.209	12.829	13.160	13.661	13.160
<b>90.0</b>	13.908	13.174	13.068	13.477	13.745	13.477	13.068	13.174	13.908	13.174
<b>92.5</b>	13.802	13.978	13.745	14.169	13.548	14.169	13.745	13.978	13.802	13.978
<b>95.0</b>	13.259	14.288	14.613	13.823	13.019	13.823	14.613	14.288	13.259	14.288
<b>97.5</b>	13.005	14.042	14.937	13.597	13.026	13.597	14.937	14.042	13.005	14.042
<b>100.0</b>	13.562	14.394	14.824	14.013	13.632	14.013	14.824	14.394	13.562	14.394
<b>102.5</b>	14.063	14.662	14.789	14.528	14.169	14.528	14.789	14.662	14.063	14.662
<b>105.0</b>	14.493	14.874	15.050	14.775	14.493	14.775	15.050	14.874	14.493	14.874
<b>107.5</b>	14.754	15.036	15.121	14.980	14.725	14.980	15.121	15.036	14.754	15.036
<b>110.0</b>	14.916	15.135	15.071	15.043	14.980	15.043	15.071	15.135	14.916	15.135
<b>112.5</b>	15.015	15.212	15.163	15.092	15.036	15.092	15.163	15.212	15.015	15.212
<b>115.0</b>	15.325	15.522	15.508	15.297	15.262	15.297	15.508	15.522	15.325	15.522
<b>117.5</b>	15.762	15.981	15.861	15.699	15.685	15.699	15.861	15.981	15.762	15.981
<b>120.0</b>	16.185	16.468	16.249	16.087	16.051	16.087	16.249	16.468	16.185	16.468
<b>122.5</b>	16.454	16.827	16.616	16.383	16.334	16.383	16.616	16.827	16.454	16.827
<b>125.0</b>	16.566	17.018	16.884	16.566	16.439	16.566	16.884	17.018	16.566	17.018
<b>127.5</b>	16.644	17.131	17.201	16.735	16.524	16.735	17.201	17.131	16.644	17.131
<b>130.0</b>	16.757	17.363	17.667	16.997	16.693	16.997	17.667	17.363	16.757	17.363
<b>132.5</b>	16.877	17.638	18.033	17.293	16.898	17.293	18.033	17.638	16.877	17.638

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**CANDELA TABULATION - (Cont.)**

135.0	17.039	17.836	18.287	17.596	17.201	17.596	18.287	17.836	17.039	17.836
137.5	17.314	18.090	18.463	17.948	17.589	17.948	18.463	18.090	17.314	18.090
140.0	17.716	18.336	18.640	18.308	18.047	18.308	18.640	18.336	17.716	18.336
142.5	18.358	18.583	18.774	18.760	18.689	18.760	18.774	18.583	18.358	18.583
145.0	19.310	19.021	19.077	19.465	19.543	19.465	19.077	19.021	19.310	19.021
147.5	20.212	19.768	19.698	20.311	20.509	20.311	19.698	19.768	20.212	19.768
150.0	21.496	21.150	21.179	21.722	21.947	21.722	21.179	21.150	21.496	21.150
152.5	23.330	23.125	23.196	23.562	23.647	23.562	23.196	23.125	23.330	23.125
155.0	24.507	24.846	25.128	25.015	24.796	25.015	25.128	24.846	24.507	24.846
157.5	25.015	25.791	26.228	25.897	25.657	25.897	26.228	25.791	25.015	25.791
160.0	25.622	25.939	26.264	26.108	26.172	26.108	26.264	25.939	25.622	25.939
162.5	26.031	25.643	25.749	25.643	26.108	25.643	25.749	25.643	26.031	25.643
165.0	25.960	25.248	25.220	25.227	25.763	25.227	25.220	25.248	25.960	25.248
167.5	25.749	25.100	24.952	25.086	25.495	25.086	24.952	25.100	25.749	25.100
170.0	25.255	24.888	24.705	24.874	25.114	24.874	24.705	24.888	25.255	24.888
172.5	24.881	24.860	24.606	24.768	24.888	24.768	24.606	24.860	24.881	24.860
175.0	26.087	26.419	26.391	26.369	26.179	26.369	26.391	26.419	26.087	26.419
177.5	29.000	29.769	30.051	29.747	29.303	29.747	30.051	29.769	29.000	29.769
180.0	31.028	31.028	31.028	31.028	31.028	31.028	31.028	31.028	31.028	31.028

**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	522.202	522.202	522.202	522.202	522.202	522.202	522.202
2.5	520.693	521.038	519.289	521.038	520.693	520.432	518.887
5.0	514.515	513.133	512.329	513.133	514.515	514.698	514.155
7.5	525.672	520.834	523.359	520.834	525.672	526.405	526.159
10.0	561.971	544.636	539.467	544.636	561.971	554.869	544.601
12.5	577.437	565.794	561.132	565.794	577.437	574.785	567.119
15.0	582.219	585.710	595.005	585.710	582.219	583.763	596.126
17.5	579.842	602.389	618.807	602.389	579.842	587.572	616.092
20.0	577.557	607.594	620.281	607.594	577.557	593.313	612.608
22.5	593.425	587.120	595.562	587.120	593.425	595.858	590.075
25.0	604.872	576.161	568.001	576.161	604.872	591.782	568.685
27.5	587.981	570.921	563.664	570.921	587.981	588.594	568.318
30.0	544.735	545.306	536.328	545.306	544.735	551.611	544.150
32.5	477.870	487.433	482.391	487.433	477.870	489.768	492.384
35.0	409.821	420.583	432.269	420.583	409.821	417.522	436.585
37.5	358.739	362.167	364.819	362.167	358.739	362.964	369.375
40.0	320.416	302.334	294.928	302.334	320.416	314.654	290.210
42.5	267.480	249.948	247.620	249.948	267.480	261.175	243.896
45.0	200.093	199.974	197.244	199.974	200.093	203.902	196.546
47.5	157.066	151.213	148.956	151.213	157.066	158.357	146.114
50.0	121.437	117.579	114.406	117.579	121.437	120.252	113.778
52.5	88.735	90.956	89.637	90.956	88.735	88.946	90.610
55.0	65.962	70.737	71.280	70.737	65.962	67.612	72.211
57.5	52.710	56.145	57.478	56.145	52.710	54.438	58.148
60.0	44.015	45.912	46.927	45.912	44.015	45.496	47.111
62.5	37.964	37.251	37.851	37.251	37.964	37.576	37.618
65.0	31.560	30.685	30.312	30.685	31.560	31.257	29.740
67.5	27.646	26.652	26.235	26.652	27.646	27.300	25.967
70.0	24.860	24.035	23.732	24.035	24.860	24.479	23.619
72.5	22.103	21.595	21.482	21.595	22.103	21.806	21.510
75.0	19.606	19.408	19.705	19.408	19.606	19.303	19.881
77.5	17.363	17.406	18.280	17.406	17.363	17.109	18.520
80.0	15.530	15.981	16.940	15.981	15.530	15.516	17.046

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**CANDELA TABULATION - (Cont.)**

82.5	14.070	15.001	15.544	15.001	14.070	14.563	15.417
85.0	13.118	14.056	14.218	14.056	13.118	13.654	13.999
87.5	12.829	13.209	13.759	13.209	12.829	13.160	13.661
90.0	13.068	13.477	13.745	13.477	13.068	13.174	13.908
92.5	13.745	14.169	13.548	14.169	13.745	13.978	13.802
95.0	14.613	13.823	13.019	13.823	14.613	14.288	13.259
97.5	14.937	13.597	13.026	13.597	14.937	14.042	13.005
100.0	14.824	14.013	13.632	14.013	14.824	14.394	13.562
102.5	14.789	14.528	14.169	14.528	14.789	14.662	14.063
105.0	15.050	14.775	14.493	14.775	15.050	14.874	14.493
107.5	15.121	14.980	14.725	14.980	15.121	15.036	14.754
110.0	15.071	15.043	14.980	15.043	15.071	15.135	14.916
112.5	15.163	15.092	15.036	15.092	15.163	15.212	15.015
115.0	15.508	15.297	15.262	15.297	15.508	15.522	15.325
117.5	15.861	15.699	15.685	15.699	15.861	15.981	15.762
120.0	16.249	16.087	16.051	16.087	16.249	16.468	16.185
122.5	16.616	16.383	16.334	16.383	16.616	16.827	16.454
125.0	16.884	16.566	16.439	16.566	16.884	17.018	16.566
127.5	17.201	16.735	16.524	16.735	17.201	17.131	16.644
130.0	17.667	16.997	16.693	16.997	17.667	17.363	16.757
132.5	18.033	17.293	16.898	17.293	18.033	17.638	16.877
135.0	18.287	17.596	17.201	17.596	18.287	17.836	17.039
137.5	18.463	17.948	17.589	17.948	18.463	18.090	17.314
140.0	18.640	18.308	18.047	18.308	18.640	18.336	17.716
142.5	18.774	18.760	18.689	18.760	18.774	18.583	18.358
145.0	19.077	19.465	19.543	19.465	19.077	19.021	19.310
147.5	19.698	20.311	20.509	20.311	19.698	19.768	20.212
150.0	21.179	21.722	21.947	21.722	21.179	21.150	21.496
152.5	23.196	23.562	23.647	23.562	23.196	23.125	23.330
155.0	25.128	25.015	24.796	25.015	25.128	24.846	24.507
157.5	26.228	25.897	25.657	25.897	26.228	25.791	25.015
160.0	26.264	26.108	26.172	26.108	26.264	25.939	25.622
162.5	25.749	25.643	26.108	25.643	25.749	25.643	26.031
165.0	25.220	25.227	25.763	25.227	25.220	25.248	25.960
167.5	24.952	25.086	25.495	25.086	24.952	25.100	25.749
170.0	24.705	24.874	25.114	24.874	24.705	24.888	25.255
172.5	24.606	24.768	24.888	24.768	24.606	24.860	24.881
175.0	26.391	26.369	26.179	26.369	26.391	26.419	26.087
177.5	30.051	29.747	29.303	29.747	30.051	29.769	29.000
180.0	31.028	31.028	31.028	31.028	31.028	31.028	31.028

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	216.07	N.A.	18.80
0-30	484.88	N.A.	42.30
0-40	748.20	N.A.	65.20
0-60	971.19	N.A.	84.60
0-80	1024.27	N.A.	89.30
0-90	1039.65	N.A.	90.60
10-90	989.35	N.A.	86.20
20-40	532.13	N.A.	46.40
20-50	689.36	N.A.	60.10
40-70	255.21	N.A.	22.20
60-80	53.07	N.A.	4.60
70-80	20.86	N.A.	1.80
80-90	15.39	N.A.	1.30
90-110	30.73	N.A.	2.70
90-120	46.11	N.A.	4.00
90-130	61.11	N.A.	5.30
90-150	87.01	N.A.	7.60
90-180	107.98	N.A.	9.40
110-180	77.24	N.A.	6.70
0-180	1147.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	50.30
10-20	165.76
20-30	268.81
30-40	263.31
40-50	157.23
50-60	65.77
60-70	32.22
70-80	20.86
80-90	15.39
90-100	15.15
100-110	15.58
110-120	15.37
120-130	15.00
130-140	13.72
140-150	12.18
150-160	11.25
160-170	7.23
170-180	2.48

# IES INDOOR REPORT

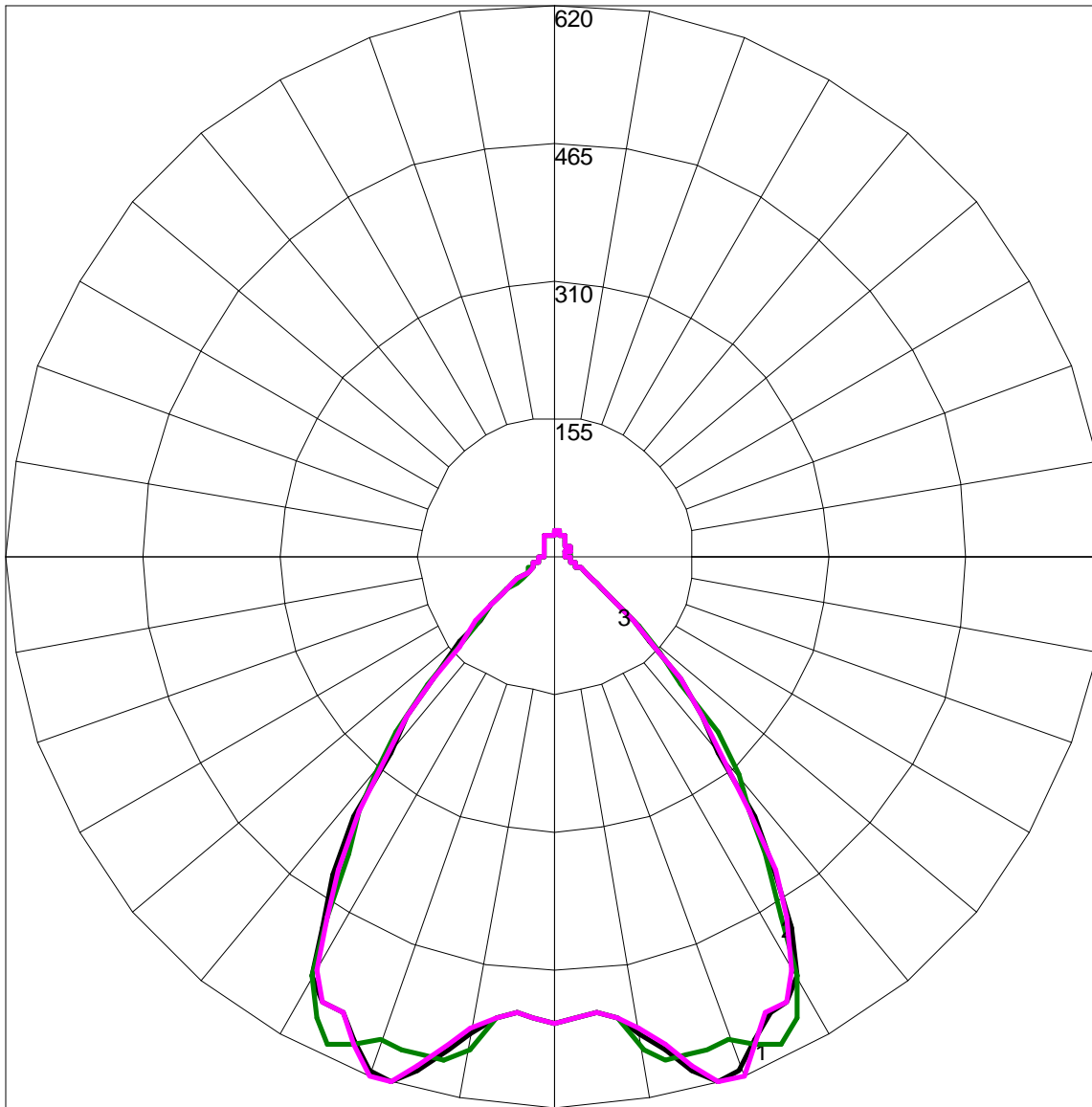
PHOTOMETRIC FILENAME : PRDDH22LEDGV-15L35KEX-PR22-XX-CNFR-XX.IES

## 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	106	106	106	99	99	99	93	93	93	91
1	109	105	102	99	105	102	99	97	96	94	92	91	89	87	86	85	83	81
2	102	95	90	85	98	93	88	84	88	84	80	83	80	77	79	77	74	72
3	95	86	80	75	92	84	78	74	80	75	71	76	72	69	73	69	67	64
4	88	79	71	66	85	77	70	65	73	68	63	70	65	62	67	63	60	58
5	82	72	64	59	80	70	63	58	67	61	57	64	59	55	62	58	54	52
6	77	66	58	53	75	64	57	52	62	56	51	59	54	50	57	53	49	47
7	72	61	53	48	70	59	52	48	57	51	47	55	50	46	53	48	45	43
8	67	56	49	44	66	55	48	43	53	47	42	51	46	42	49	45	41	39
9	63	52	45	40	62	51	44	40	49	43	39	47	42	38	46	41	38	36
10	60	48	41	37	58	47	41	36	46	40	36	44	39	35	43	38	35	33

POLAR GRAPH



Maximum Candela = 620.281 Located At Horizontal Angle = 90, Vertical Angle = 20

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

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

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