

IES INDOOR REPORT**PHOTOMETRIC FILENAME : PRDDH22LEDGV-27L35KEX-PR22-XX-CNFR-XX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] CRT1509031201-001-22_M-27L-35K
[TESTLAB] Intertek
[ISSUE DATE] 10/27/2015
[UPDATE] 5/4/2018
[MANUFAC] Spectrum Lighting
[LUMCAT] PRDDH22LEDGV-27L-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	2003
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	18
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	1042	1060	1045
55	395	361	390
65	174	184	177
75	129	127	128
85	105	99	107

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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	911.491	911.491	911.491	911.491	911.491	911.491	911.491	911.491	911.491	911.491
2.5	905.705	908.401	908.856	909.460	906.407	909.460	908.856	908.401	905.705	908.401
5.0	897.445	898.393	898.073	895.660	894.257	895.660	898.073	898.393	897.445	898.393
7.5	918.397	918.827	917.547	909.103	913.510	909.103	917.547	918.827	918.397	918.827
10.0	950.587	968.510	980.907	950.649	941.626	950.649	980.907	968.510	950.587	968.510
12.5	989.893	1003.274	1007.902	987.579	979.442	987.579	1007.902	1003.274	989.893	1003.274
15.0	1040.524	1018.944	1016.249	1022.342	1038.567	1022.342	1016.249	1018.944	1040.524	1018.944
17.5	1075.373	1025.592	1012.100	1051.455	1080.113	1051.455	1012.100	1025.592	1075.373	1025.592
20.0	1069.292	1035.612	1008.112	1060.540	1082.686	1060.540	1008.112	1035.612	1069.292	1035.612
22.5	1029.962	1040.056	1035.809	1024.804	1039.539	1024.804	1035.809	1040.056	1029.962	1040.056
25.0	992.626	1032.941	1055.788	1005.674	991.432	1005.674	1055.788	1032.941	992.626	1032.941
27.5	991.985	1027.377	1026.306	996.528	983.861	996.528	1026.306	1027.377	991.985	1027.377
30.0	949.800	962.823	950.821	951.818	936.148	951.818	950.821	962.823	949.800	962.823
32.5	859.444	854.877	834.111	850.803	842.001	850.803	834.111	854.877	859.444	854.877
35.0	762.048	728.774	715.332	734.117	754.514	734.117	715.332	728.774	762.048	728.774
37.5	644.734	633.544	626.171	632.153	636.782	632.153	626.171	633.544	644.734	633.544
40.0	506.555	549.221	559.278	527.716	514.790	527.716	559.278	549.221	506.555	549.221
42.5	425.715	455.875	466.880	436.277	432.215	436.277	466.880	455.875	425.715	455.875
45.0	343.066	355.905	349.258	349.049	344.285	349.049	349.258	355.905	343.066	355.905
47.5	255.038	276.408	274.155	263.938	259.998	263.938	274.155	276.408	255.038	276.408
50.0	198.597	209.897	211.965	205.232	199.692	205.232	211.965	209.897	198.597	209.897
52.5	158.158	155.253	154.884	158.761	156.460	158.761	154.884	155.253	158.158	155.253
55.0	126.042	118.015	115.135	123.469	124.417	123.469	115.135	118.015	126.042	118.015
57.5	101.495	95.020	92.005	98.000	100.326	98.000	92.005	95.020	101.495	95.020
60.0	82.230	79.411	76.827	80.138	81.911	80.138	76.827	79.411	82.230	79.411
62.5	65.661	65.587	66.265	65.021	66.067	65.021	66.265	65.587	65.661	65.587
65.0	51.911	54.558	55.087	53.561	52.908	53.561	55.087	54.558	51.911	54.558
67.5	45.325	47.652	48.255	46.520	45.793	46.520	48.255	47.652	45.325	47.652
70.0	41.226	42.728	43.393	41.952	41.423	41.952	43.393	42.728	41.226	42.728
72.5	37.545	38.062	38.579	37.693	37.496	37.693	38.579	38.062	37.545	38.062
75.0	34.702	33.692	34.222	33.877	34.394	33.877	34.222	33.692	34.702	33.692
77.5	32.326	29.864	30.307	30.381	31.907	30.381	30.307	29.864	32.326	29.864
80.0	29.753	27.082	27.106	27.894	29.569	27.894	27.106	27.082	29.753	27.082
82.5	26.910	25.420	24.558	26.183	27.131	26.183	24.558	25.420	26.910	25.420
85.0	24.435	23.832	22.896	24.534	24.817	24.534	22.896	23.832	24.435	23.832
87.5	23.844	22.970	22.392	23.057	24.017	23.057	22.392	22.970	23.844	22.970
90.0	24.275	22.995	22.810	23.525	23.992	23.525	22.810	22.995	24.275	22.995
92.5	24.091	24.398	23.992	24.731	23.647	24.731	23.992	24.398	24.091	24.398
95.0	23.143	24.940	25.506	24.128	22.724	24.128	25.506	24.940	23.143	24.940
97.5	22.700	24.509	26.072	23.734	22.737	23.734	26.072	24.509	22.700	24.509
100.0	23.672	25.124	25.876	24.460	23.795	24.460	25.876	25.124	23.672	25.124
102.5	24.546	25.592	25.814	25.359	24.731	25.359	25.814	25.592	24.546	25.592
105.0	25.297	25.962	26.270	25.790	25.297	25.790	26.270	25.962	25.297	25.962
107.5	25.753	26.245	26.393	26.146	25.703	26.146	26.393	26.245	25.753	26.245
110.0	26.036	26.417	26.306	26.257	26.146	26.257	26.306	26.417	26.036	26.417
112.5	26.208	26.552	26.466	26.343	26.245	26.343	26.466	26.552	26.208	26.552
115.0	26.750	27.094	27.069	26.700	26.639	26.700	27.069	27.094	26.750	27.094
117.5	27.513	27.894	27.685	27.402	27.377	27.402	27.685	27.894	27.513	27.894
120.0	28.251	28.744	28.362	28.079	28.017	28.079	28.362	28.744	28.251	28.744
122.5	28.719	29.371	29.002	28.596	28.510	28.596	29.002	29.371	28.719	29.371
125.0	28.916	29.704	29.470	28.916	28.695	28.916	29.470	29.704	28.916	29.704
127.5	29.052	29.901	30.024	29.211	28.842	29.211	30.024	29.901	29.052	29.901
130.0	29.248	30.307	30.837	29.667	29.138	29.667	30.837	30.307	29.248	30.307
132.5	29.458	30.787	31.477	30.184	29.495	30.184	31.477	30.787	29.458	30.787

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CANDELA TABULATION - (Cont.)

135.0	29.741	31.132	31.920	30.713	30.024	30.713	31.920	31.132	29.741	31.132
137.5	30.221	31.575	32.228	31.329	30.701	31.329	32.228	31.575	30.221	31.575
140.0	30.923	32.006	32.535	31.957	31.501	31.957	32.535	32.006	30.923	32.006
142.5	32.043	32.437	32.769	32.745	32.621	32.745	32.769	32.437	32.043	32.437
145.0	33.705	33.200	33.298	33.975	34.111	33.975	33.298	33.200	33.705	33.200
147.5	35.280	34.505	34.382	35.453	35.797	35.453	34.382	34.505	35.280	34.505
150.0	37.521	36.918	36.967	37.915	38.309	37.915	36.967	36.918	37.521	36.918
152.5	40.721	40.364	40.488	41.128	41.275	41.128	40.488	40.364	40.721	40.364
155.0	42.777	43.368	43.860	43.664	43.282	43.664	43.860	43.368	42.777	43.368
157.5	43.664	45.017	45.781	45.202	44.784	45.202	45.781	45.017	43.664	45.017
160.0	44.722	45.276	45.842	45.572	45.682	45.572	45.842	45.276	44.722	45.276
162.5	45.436	44.759	44.944	44.759	45.572	44.759	44.944	44.759	45.436	44.759
165.0	45.313	44.069	44.020	44.033	44.968	44.033	44.020	44.069	45.313	44.069
167.5	44.944	43.811	43.552	43.787	44.500	43.787	43.552	43.811	44.944	43.811
170.0	44.082	43.442	43.122	43.417	43.836	43.417	43.122	43.442	44.082	43.442
172.5	43.430	43.393	42.949	43.233	43.442	43.233	42.949	43.393	43.430	43.393
175.0	45.535	46.113	46.064	46.027	45.695	46.027	46.064	46.113	45.535	46.113
177.5	50.619	51.961	52.453	51.923	51.148	51.923	52.453	51.961	50.619	51.961
180.0	54.159	54.159	54.159	54.159	54.159	54.159	54.159	54.159	54.159	54.159

Vert. 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	911.491	911.491	911.491	911.491	911.491	911.491	911.491
2.5	908.856	909.460	906.407	909.460	908.856	908.401	905.705
5.0	898.073	895.660	894.257	895.660	898.073	898.393	897.445
7.5	917.547	909.103	913.510	909.103	917.547	918.827	918.397
10.0	980.907	950.649	941.626	950.649	980.907	968.510	950.587
12.5	1007.902	987.579	979.442	987.579	1007.902	1003.274	989.893
15.0	1016.249	1022.342	1038.567	1022.342	1016.249	1018.944	1040.524
17.5	1012.100	1051.455	1080.113	1051.455	1012.100	1025.592	1075.373
20.0	1008.112	1060.540	1082.686	1060.540	1008.112	1035.612	1069.292
22.5	1035.809	1024.804	1039.539	1024.804	1035.809	1040.056	1029.962
25.0	1055.788	1005.674	991.432	1005.674	1055.788	1032.941	992.626
27.5	1026.306	996.528	983.861	996.528	1026.306	1027.377	991.985
30.0	950.821	951.818	936.148	951.818	950.821	962.823	949.800
32.5	834.111	850.803	842.001	850.803	834.111	854.877	859.444
35.0	715.332	734.117	754.514	734.117	715.332	728.774	762.048
37.5	626.171	632.153	636.782	632.153	626.171	633.544	644.734
40.0	559.278	527.716	514.790	527.716	559.278	549.221	506.555
42.5	466.880	436.277	432.215	436.277	466.880	455.875	425.715
45.0	349.258	349.049	344.285	349.049	349.258	355.905	343.066
47.5	274.155	263.938	259.998	263.938	274.155	276.408	255.038
50.0	211.965	205.232	199.692	205.232	211.965	209.897	198.597
52.5	154.884	158.761	156.460	158.761	154.884	155.253	158.158
55.0	115.135	123.469	124.417	123.469	115.135	118.015	126.042
57.5	92.005	98.000	100.326	98.000	92.005	95.020	101.495
60.0	76.827	80.138	81.911	80.138	76.827	79.411	82.230
62.5	66.265	65.021	66.067	65.021	66.265	65.587	65.661
65.0	55.087	53.561	52.908	53.561	55.087	54.558	51.911
67.5	48.255	46.520	45.793	46.520	48.255	47.652	45.325
70.0	43.393	41.952	41.423	41.952	43.393	42.728	41.226
72.5	38.579	37.693	37.496	37.693	38.579	38.062	37.545
75.0	34.222	33.877	34.394	33.877	34.222	33.692	34.702
77.5	30.307	30.381	31.907	30.381	30.307	29.864	32.326
80.0	27.106	27.894	29.569	27.894	27.106	27.082	29.753

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82.5	24.558	26.183	27.131	26.183	24.558	25.420	26.910
85.0	22.896	24.534	24.817	24.534	22.896	23.832	24.435
87.5	22.392	23.057	24.017	23.057	22.392	22.970	23.844
90.0	22.810	23.525	23.992	23.525	22.810	22.995	24.275
92.5	23.992	24.731	23.647	24.731	23.992	24.398	24.091
95.0	25.506	24.128	22.724	24.128	25.506	24.940	23.143
97.5	26.072	23.734	22.737	23.734	26.072	24.509	22.700
100.0	25.876	24.460	23.795	24.460	25.876	25.124	23.672
102.5	25.814	25.359	24.731	25.359	25.814	25.592	24.546
105.0	26.270	25.790	25.297	25.790	26.270	25.962	25.297
107.5	26.393	26.146	25.703	26.146	26.393	26.245	25.753
110.0	26.306	26.257	26.146	26.257	26.306	26.417	26.036
112.5	26.466	26.343	26.245	26.343	26.466	26.552	26.208
115.0	27.069	26.700	26.639	26.700	27.069	27.094	26.750
117.5	27.685	27.402	27.377	27.402	27.685	27.894	27.513
120.0	28.362	28.079	28.017	28.079	28.362	28.744	28.251
122.5	29.002	28.596	28.510	28.596	29.002	29.371	28.719
125.0	29.470	28.916	28.695	28.916	29.470	29.704	28.916
127.5	30.024	29.211	28.842	29.211	30.024	29.901	29.052
130.0	30.837	29.667	29.138	29.667	30.837	30.307	29.248
132.5	31.477	30.184	29.495	30.184	31.477	30.787	29.458
135.0	31.920	30.713	30.024	30.713	31.920	31.132	29.741
137.5	32.228	31.329	30.701	31.329	32.228	31.575	30.221
140.0	32.535	31.957	31.501	31.957	32.535	32.006	30.923
142.5	32.769	32.745	32.621	32.745	32.769	32.437	32.043
145.0	33.298	33.975	34.111	33.975	33.298	33.200	33.705
147.5	34.382	35.453	35.797	35.453	34.382	34.505	35.280
150.0	36.967	37.915	38.309	37.915	36.967	36.918	37.521
152.5	40.488	41.128	41.275	41.128	40.488	40.364	40.721
155.0	43.860	43.664	43.282	43.664	43.860	43.368	42.777
157.5	45.781	45.202	44.784	45.202	45.781	45.017	43.664
160.0	45.842	45.572	45.682	45.572	45.842	45.276	44.722
162.5	44.944	44.759	45.572	44.759	44.944	44.759	45.436
165.0	44.020	44.033	44.968	44.033	44.020	44.069	45.313
167.5	43.552	43.787	44.500	43.787	43.552	43.811	44.944
170.0	43.122	43.417	43.836	43.417	43.122	43.442	44.082
172.5	42.949	43.233	43.442	43.233	42.949	43.393	43.430
175.0	46.064	46.027	45.695	46.027	46.064	46.113	45.535
177.5	52.453	51.923	51.148	51.923	52.453	51.961	50.619
180.0	54.159	54.159	54.159	54.159	54.159	54.159	54.159

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	377.14	N.A.	18.80
0-30	846.35	N.A.	42.30
0-40	1305.96	N.A.	65.20
0-60	1695.19	N.A.	84.60
0-80	1787.83	N.A.	89.30
0-90	1814.69	N.A.	90.60
10-90	1726.89	N.A.	86.20
20-40	928.82	N.A.	46.40
20-50	1203.25	N.A.	60.10
40-70	445.47	N.A.	22.20
60-80	92.64	N.A.	4.60
70-80	36.40	N.A.	1.80
80-90	26.86	N.A.	1.30
90-110	53.64	N.A.	2.70
90-120	80.48	N.A.	4.00
90-130	106.66	N.A.	5.30
90-150	151.87	N.A.	7.60
90-180	188.47	N.A.	9.40
110-180	134.83	N.A.	6.70
0-180	2003.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.80
10-20	289.34
20-30	469.21
30-40	459.61
40-50	274.44
50-60	114.80
60-70	56.23
70-80	36.40
80-90	26.86
90-100	26.45
100-110	27.19
110-120	26.83
120-130	26.19
130-140	23.94
140-150	21.27
150-160	19.64
160-170	12.63
170-180	4.33

IES INDOOR REPORT

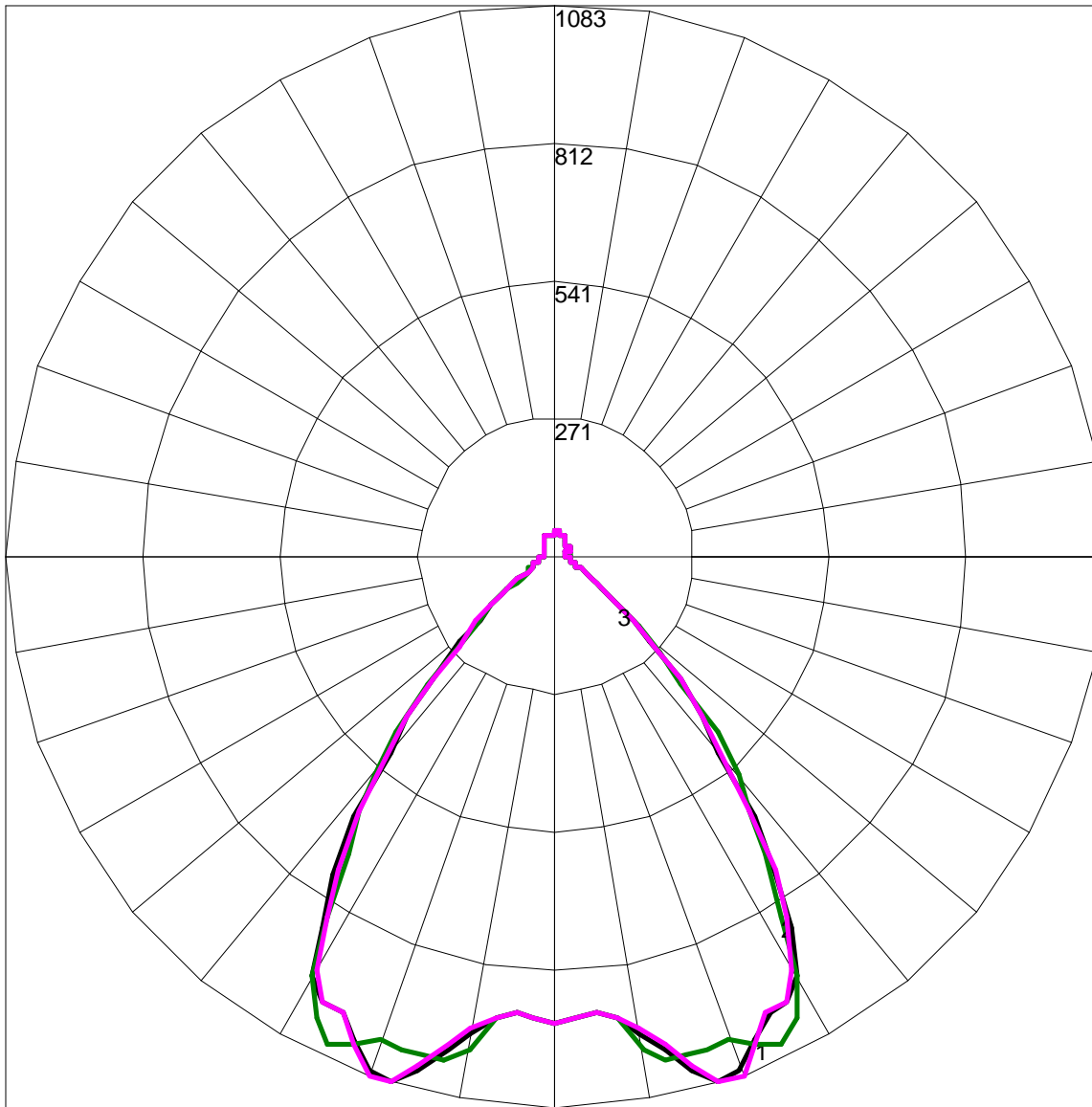
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	99	99	99	93	93	93	91
1	109	105	102	99	106	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	72	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	56	62	58	54	52
6	77	66	58	53	75	64	58	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 = 1082.686 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)