

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRDDH22LEDGV-110L35KEXXXPR22CNFRXX.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[LUMCAT] PRDDH22LEDGV-110L-35K-Ex/xx/xx/PR22/CNFR/XX

[LUMINAIRE] LED High Bay - Prismatic Refractor Conical Lens, inside frosted

[LAMP] N/A

[TEST] CRT1509031201-001-22-MOD to: PRDDH22LEDGV-110L-35KEx/xx/xx/PR22/CNFR/XX

[TESTLAB] Intertek

[ISSUEDATE] 10/27/2015

[UPDATE] 02/04/2016

[MANUFAC] Spectrum

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 5000K x 1.07, 4000K X 1.03, 3000K X 0.983, 2700K X 0.967

[OTHER] Scaled from 220L (172W) report

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8257
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	88
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

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4293	4371	4308
55	1629	1488	1608
65	717	760	730
75	531	524	526
85	434	407	441

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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	3757.043	3757.043	3757.043	3757.043	3757.043	3757.043	3757.043	3757.043	3757.043	3757.043
2.5	3733.195	3744.307	3746.185	3748.671	3736.088	3748.671	3746.185	3744.307	3733.195	3744.307
5.0	3699.149	3703.056	3701.737	3691.791	3686.007	3691.791	3701.737	3703.056	3699.149	3703.056
7.5	3785.508	3787.284	3782.007	3747.200	3765.364	3747.200	3782.007	3787.284	3785.508	3787.284
10.0	3918.193	3992.071	4043.166	3918.447	3881.255	3918.447	4043.166	3992.071	3918.193	3992.071
12.5	4080.206	4135.361	4154.439	4070.667	4037.128	4070.667	4154.439	4135.361	4080.206	4135.361
15.0	4288.900	4199.953	4188.841	4213.957	4280.832	4213.957	4188.841	4199.953	4288.900	4199.953
17.5	4432.545	4227.352	4171.741	4333.957	4452.080	4333.957	4171.741	4227.352	4432.545	4227.352
20.0	4407.479	4268.655	4155.301	4371.403	4462.684	4371.403	4155.301	4268.655	4407.479	4268.655
22.5	4245.365	4286.972	4269.466	4224.105	4284.841	4224.105	4269.466	4286.972	4245.365	4286.972
25.0	4091.470	4257.644	4351.817	4145.255	4086.549	4145.255	4351.817	4257.644	4091.470	4257.644
27.5	4088.832	4234.709	4230.295	4107.555	4055.344	4107.555	4230.295	4234.709	4088.832	4234.709
30.0	3914.946	3968.629	3919.157	3923.267	3858.675	3923.267	3919.157	3968.629	3914.946	3968.629
32.5	3542.514	3523.690	3438.091	3506.895	3470.616	3506.895	3438.091	3523.690	3542.514	3523.690
35.0	3141.060	3003.909	2948.501	3025.930	3110.007	3025.930	2948.501	3003.909	3141.060	3003.909
37.5	2657.507	2611.385	2580.991	2605.651	2624.729	2605.651	2580.991	2611.385	2657.507	2611.385
40.0	2087.951	2263.816	2305.270	2175.173	2121.896	2175.173	2305.270	2263.816	2087.951	2263.816
42.5	1754.741	1879.054	1924.416	1798.276	1781.532	1798.276	1924.416	1879.054	1754.741	1879.054
45.0	1414.073	1466.995	1439.595	1438.733	1419.096	1438.733	1439.595	1466.995	1414.073	1466.995
47.5	1051.231	1139.316	1130.030	1087.916	1071.679	1087.916	1130.030	1139.316	1051.231	1139.316
50.0	818.588	865.168	873.692	845.937	823.104	845.937	873.692	865.168	818.588	865.168
52.5	651.907	639.933	638.411	654.394	644.905	654.394	638.411	639.933	651.907	639.933
55.0	519.527	486.444	474.571	508.922	512.829	508.922	474.571	486.444	519.527	486.444
57.5	418.351	391.662	379.231	403.941	413.531	403.941	379.231	391.662	418.351	391.662
60.0	338.943	327.324	316.668	330.317	337.624	330.317	316.668	327.324	338.943	327.324
62.5	270.647	270.343	273.133	268.009	272.322	268.009	273.133	270.343	270.647	270.343
65.0	213.971	224.880	227.061	220.770	218.081	220.770	227.061	224.880	213.971	224.880
67.5	186.825	196.415	198.901	191.746	188.753	191.746	198.901	196.415	186.825	196.415
70.0	169.928	176.119	178.858	172.922	170.740	172.922	178.858	176.119	169.928	176.119
72.5	154.757	156.888	159.019	155.366	154.554	155.366	159.019	156.888	154.757	156.888
75.0	143.036	138.875	141.057	139.636	141.768	139.636	141.057	138.875	143.036	138.875
77.5	133.243	123.095	124.922	125.226	131.518	125.226	124.922	123.095	133.243	123.095
80.0	122.639	111.628	111.729	114.977	121.877	114.977	111.729	111.628	122.639	111.628
82.5	110.918	104.778	101.226	107.924	111.831	107.924	101.226	104.778	110.918	104.778
85.0	100.719	98.233	94.376	101.125	102.292	101.125	94.376	98.233	100.719	98.233
87.5	98.283	94.681	92.296	95.036	98.994	95.036	92.296	94.681	98.283	94.681
90.0	100.059	94.782	94.021	96.964	98.892	96.964	94.021	94.782	100.059	94.782
92.5	99.298	100.567	98.892	101.937	97.472	101.937	98.892	100.567	99.298	100.567
95.0	95.391	102.799	105.133	99.450	93.666	99.450	105.133	102.799	95.391	102.799
97.5	93.565	101.023	107.467	97.827	93.717	97.827	107.467	101.023	93.565	101.023
100.0	97.573	103.560	106.655	100.820	98.080	100.820	106.655	103.560	97.573	103.560
102.5	101.176	105.488	106.402	104.524	101.937	104.524	106.402	105.488	101.176	105.488
105.0	104.271	107.011	108.279	106.300	104.271	106.300	108.279	107.011	104.271	107.011
107.5	106.148	108.178	108.787	107.772	105.945	107.772	108.787	108.178	106.148	108.178
110.0	107.315	108.888	108.431	108.228	107.772	108.228	108.431	108.888	107.315	108.888
112.5	108.025	109.446	109.091	108.584	108.178	108.584	109.091	109.446	108.025	109.446
115.0	110.258	111.679	111.577	110.055	109.801	110.055	111.577	111.679	110.258	111.679
117.5	113.404	114.977	114.114	112.947	112.846	112.947	114.114	114.977	113.404	114.977
120.0	116.448	118.478	116.905	115.738	115.484	115.738	116.905	118.478	116.448	118.478
122.5	118.376	121.066	119.543	117.869	117.514	117.869	119.543	121.066	118.376	121.066
125.0	119.188	122.436	121.472	119.188	118.275	119.188	121.472	122.436	119.188	122.436
127.5	119.746	123.247	123.755	120.406	118.884	120.406	123.755	123.247	119.746	123.247
130.0	120.558	124.922	127.104	122.283	120.102	122.283	127.104	124.922	120.558	124.922
132.5	121.421	126.901	129.742	124.414	121.573	124.414	129.742	126.901	121.421	126.901

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CANDELA TABULATION - (Cont.)

135.0	122.588	128.321	131.569	126.596	123.755	126.596	131.569	128.321	122.588	128.321
137.5	124.567	130.148	132.837	129.133	126.546	129.133	132.837	130.148	124.567	130.148
140.0	127.459	131.924	134.106	131.721	129.844	131.721	134.106	131.924	127.459	131.924
142.5	132.076	133.700	135.070	134.968	134.461	134.968	135.070	133.700	132.076	133.700
145.0	138.926	136.846	137.252	140.042	140.601	140.042	137.252	136.846	138.926	136.846
147.5	145.421	142.224	141.717	146.131	147.552	146.131	141.717	142.224	145.421	142.224
150.0	154.656	152.169	152.372	156.279	157.903	156.279	152.372	152.169	154.656	152.169
152.5	167.848	166.376	166.884	169.522	170.131	169.522	166.884	166.376	167.848	166.376
155.0	176.321	178.757	180.787	179.975	178.402	179.975	180.787	178.757	176.321	178.757
157.5	179.975	185.556	188.702	186.317	184.592	186.317	188.702	185.556	179.975	185.556
160.0	184.338	186.622	188.956	187.839	188.296	187.839	188.956	186.622	184.338	186.622
162.5	187.281	184.491	185.252	184.491	187.839	184.491	185.252	184.491	187.281	184.491
165.0	186.774	181.649	181.446	181.497	185.353	181.497	181.446	181.649	186.774	181.649
167.5	185.252	180.584	179.518	180.482	183.425	180.482	179.518	180.584	185.252	180.584
170.0	181.700	179.061	177.742	178.960	180.685	178.960	177.742	179.061	181.700	179.061
172.5	179.011	178.858	177.032	178.199	179.061	178.199	177.032	178.858	179.011	178.858
175.0	187.687	190.072	189.869	189.717	188.347	189.717	189.869	190.072	187.687	190.072
177.5	208.643	214.174	216.203	214.021	210.825	214.021	216.203	214.174	208.643	214.174
180.0	223.763	223.763	223.763	223.763	223.763	223.763	223.763	223.763	223.763	223.763

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	3757.043	3757.043	3757.043	3757.043	3757.043	3757.043	3757.043
2.5	3746.185	3748.671	3736.088	3748.671	3746.185	3744.307	3733.195
5.0	3701.737	3691.791	3686.007	3691.791	3701.737	3703.056	3699.149
7.5	3782.007	3747.200	3765.364	3747.200	3782.007	3787.284	3785.508
10.0	4043.166	3918.447	3881.255	3918.447	4043.166	3992.071	3918.193
12.5	4154.439	4070.667	4037.128	4070.667	4154.439	4135.361	4080.206
15.0	4188.841	4213.957	4280.832	4213.957	4188.841	4199.953	4288.900
17.5	4171.741	4333.957	4452.080	4333.957	4171.741	4227.352	4432.545
20.0	4155.301	4371.403	4462.684	4371.403	4155.301	4268.655	4407.479
22.5	4269.466	4224.105	4284.841	4224.105	4269.466	4286.972	4245.365
25.0	4351.817	4145.255	4086.549	4145.255	4351.817	4257.644	4091.470
27.5	4230.295	4107.555	4055.344	4107.555	4230.295	4234.709	4088.832
30.0	3919.157	3923.267	3858.675	3923.267	3919.157	3968.629	3914.946
32.5	3438.091	3506.895	3470.616	3506.895	3438.091	3523.690	3542.514
35.0	2948.501	3025.930	3110.007	3025.930	2948.501	3003.909	3141.060
37.5	2580.991	2605.651	2624.729	2605.651	2580.991	2611.385	2657.507
40.0	2305.270	2175.173	2121.896	2175.173	2305.270	2263.816	2087.951
42.5	1924.416	1798.276	1781.532	1798.276	1924.416	1879.054	1754.741
45.0	1439.595	1438.733	1419.096	1438.733	1439.595	1466.995	1414.073
47.5	1130.030	1087.916	1071.679	1087.916	1130.030	1139.316	1051.231
50.0	873.692	845.937	823.104	845.937	873.692	865.168	818.588
52.5	638.411	654.394	644.905	654.394	638.411	639.933	651.907
55.0	474.571	508.922	512.829	508.922	474.571	486.444	519.527
57.5	379.231	403.941	413.531	403.941	379.231	391.662	418.351
60.0	316.668	330.317	337.624	330.317	316.668	327.324	338.943
62.5	273.133	268.009	272.322	268.009	273.133	270.343	270.647
65.0	227.061	220.770	218.081	220.770	227.061	224.880	213.971
67.5	198.901	191.746	188.753	191.746	198.901	196.415	186.825
70.0	178.858	172.922	170.740	172.922	178.858	176.119	169.928
72.5	159.019	155.366	154.554	155.366	159.019	156.888	154.757
75.0	141.057	139.636	141.768	139.636	141.057	138.875	143.036
77.5	124.922	125.226	131.518	125.226	124.922	123.095	133.243
80.0	111.729	114.977	121.877	114.977	111.729	111.628	122.639

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CANDELA TABULATION - (Cont.)

82.5	101.226	107.924	111.831	107.924	101.226	104.778	110.918
85.0	94.376	101.125	102.292	101.125	94.376	98.233	100.719
87.5	92.296	95.036	98.994	95.036	92.296	94.681	98.283
90.0	94.021	96.964	98.892	96.964	94.021	94.782	100.059
92.5	98.892	101.937	97.472	101.937	98.892	100.567	99.298
95.0	105.133	99.450	93.666	99.450	105.133	102.799	95.391
97.5	107.467	97.827	93.717	97.827	107.467	101.023	93.565
100.0	106.655	100.820	98.080	100.820	106.655	103.560	97.573
102.5	106.402	104.524	101.937	104.524	106.402	105.488	101.176
105.0	108.279	106.300	104.271	106.300	108.279	107.011	104.271
107.5	108.787	107.772	105.945	107.772	108.787	108.178	106.148
110.0	108.431	108.228	107.772	108.228	108.431	108.888	107.315
112.5	109.091	108.584	108.178	108.584	109.091	109.446	108.025
115.0	111.577	110.055	109.801	110.055	111.577	111.679	110.258
117.5	114.114	112.947	112.846	112.947	114.114	114.977	113.404
120.0	116.905	115.738	115.484	115.738	116.905	118.478	116.448
122.5	119.543	117.869	117.514	117.869	119.543	121.066	118.376
125.0	121.472	119.188	118.275	119.188	121.472	122.436	119.188
127.5	123.755	120.406	118.884	120.406	123.755	123.247	119.746
130.0	127.104	122.283	120.102	122.283	127.104	124.922	120.558
132.5	129.742	124.414	121.573	124.414	129.742	126.901	121.421
135.0	131.569	126.596	123.755	126.596	131.569	128.321	122.588
137.5	132.837	129.133	126.546	129.133	132.837	130.148	124.567
140.0	134.106	131.721	129.844	131.721	134.106	131.924	127.459
142.5	135.070	134.968	134.461	134.968	135.070	133.700	132.076
145.0	137.252	140.042	140.601	140.042	137.252	136.846	138.926
147.5	141.717	146.131	147.552	146.131	141.717	142.224	145.421
150.0	152.372	156.279	157.903	156.279	152.372	152.169	154.656
152.5	166.884	169.522	170.131	169.522	166.884	166.376	167.848
155.0	180.787	179.975	178.402	179.975	180.787	178.757	176.321
157.5	188.702	186.317	184.592	186.317	188.702	185.556	179.975
160.0	188.956	187.839	188.296	187.839	188.956	186.622	184.338
162.5	185.252	184.491	187.839	184.491	185.252	184.491	187.281
165.0	181.446	181.497	185.353	181.497	181.446	181.649	186.774
167.5	179.518	180.482	183.425	180.482	179.518	180.584	185.252
170.0	177.742	178.960	180.685	178.960	177.742	179.061	181.700
172.5	177.032	178.199	179.061	178.199	177.032	178.858	179.011
175.0	189.869	189.717	188.347	189.717	189.869	190.072	187.687
177.5	216.203	214.021	210.825	214.021	216.203	214.174	208.643
180.0	223.763	223.763	223.763	223.763	223.763	223.763	223.763

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1554.53	N.A.	18.80
0-30	3488.53	N.A.	42.30
0-40	5382.98	N.A.	65.20
0-60	6987.35	N.A.	84.60
0-80	7369.2	N.A.	89.30
0-90	7479.91	N.A.	90.60
10-90	7118.01	N.A.	86.20
20-40	3828.45	N.A.	46.40
20-50	4959.65	N.A.	60.10
40-70	1836.16	N.A.	22.20
60-80	381.84	N.A.	4.60
70-80	150.05	N.A.	1.80
80-90	110.72	N.A.	1.30
90-110	221.10	N.A.	2.70
90-120	331.71	N.A.	4.00
90-130	439.64	N.A.	5.30
90-150	625.97	N.A.	7.60
90-180	776.85	N.A.	9.40
110-180	555.75	N.A.	6.70
0-180	8256.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	361.91
10-20	1192.61
20-30	1934.00
30-40	1894.45
40-50	1131.2
50-60	473.17
60-70	231.79
70-80	150.05
80-90	110.72
90-100	109.01
100-110	112.09
110-120	110.61
120-130	107.93
130-140	98.68
140-150	87.65
150-160	80.97
160-170	52.04
170-180	17.86

IES INDOOR REPORT

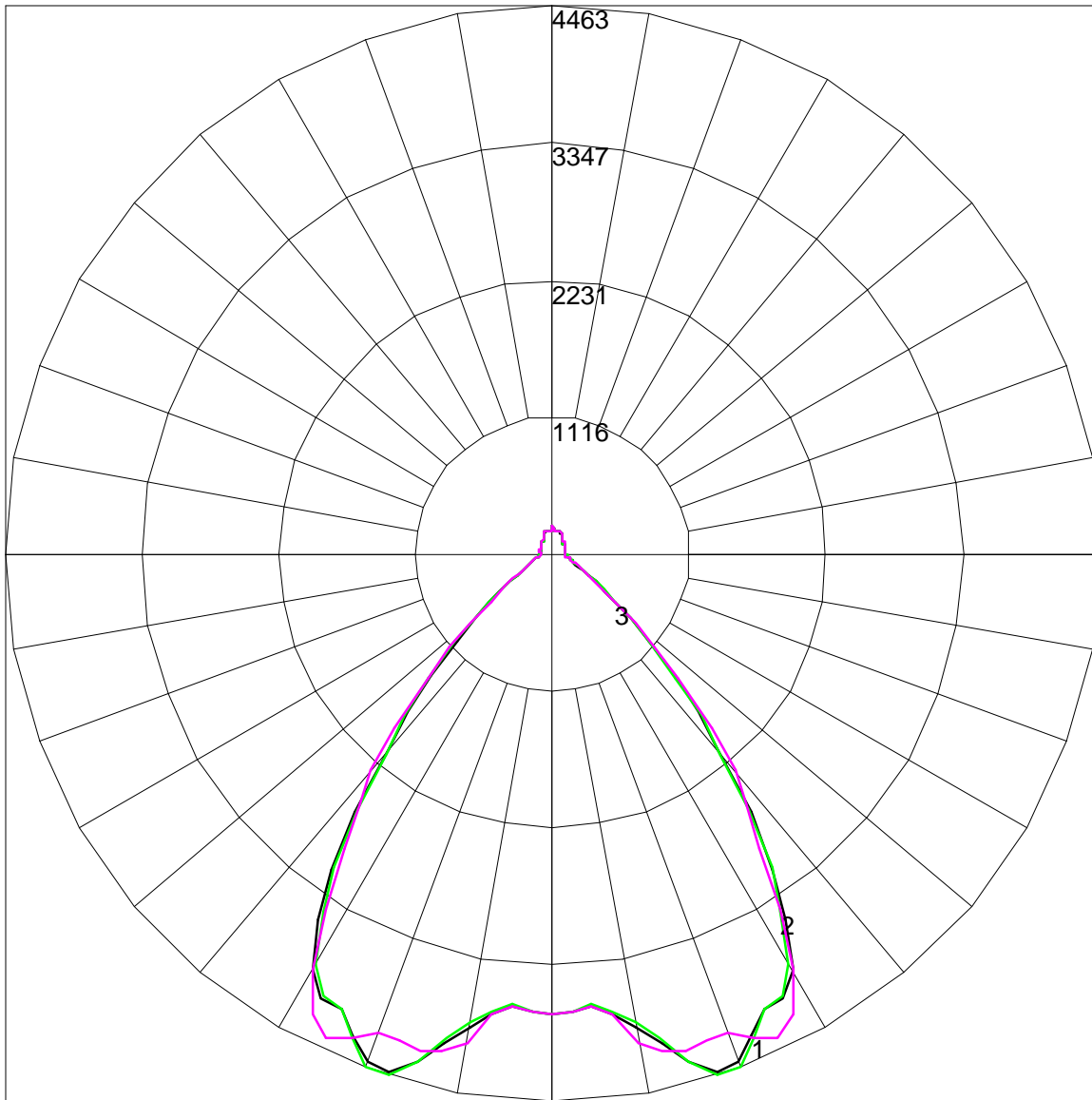
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	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	55	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 = 4462.684 Located At Horizontal Angle = 90, Vertical Angle = 20

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)