

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRSUR22LEDGV-55L35K-EX-PR22CNFR.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [LUMCAT] PRDDH22LEDGV-55L-35K-Ex/xx/xx/PR22/CNFR/XX
 [LUMINAIRE] LED High Bay - Prismatic Refractor Conical Lens, inside frosted
 [LAMP] N/A
 [TEST] PRDDH22LEDGV-55L-35KEx/xx/xx/PR22/CNFR/XX
 [TESTLAB] Intertek
 [ISSUE DATE] 10/27/2015
 [UPDATE] 7/30/2018
 [MANUFAC] Spectrum Lighting
 [OTHER] Total Luminaire Watts is approximate
 [_CCTMULT] 50K x 1.07, 40K X 1.03, 30K X 0.983, 27K X 0.967
 [_LAMPMULT] 15L x 0.26, 27L x 0.45, 37L x 0.67
 [_CRI] 80
 [OTHER] Scaled from 220L (172W) report

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4329
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	39
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	2251	2291	2259
55	854	780	843
65	376	399	383
75	278	275	276
85	228	213	231

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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	1969.597	1969.597	1969.597	1969.597	1969.597	1969.597	1969.597	1969.597	1969.597	1969.597
2.5	1957.095	1962.920	1963.905	1965.208	1958.611	1965.208	1963.905	1962.920	1957.095	1962.920
5.0	1939.246	1941.295	1940.603	1935.389	1932.357	1935.389	1940.603	1941.295	1939.246	1941.295
7.5	1984.520	1985.451	1982.684	1964.437	1973.959	1964.437	1982.684	1985.451	1984.520	1985.451
10.0	2054.079	2092.808	2119.594	2054.212	2034.714	2054.212	2119.594	2092.808	2054.079	2092.808
12.5	2139.012	2167.927	2177.928	2134.012	2116.429	2134.012	2177.928	2167.927	2139.012	2167.927
15.0	2248.418	2201.788	2195.963	2209.130	2244.189	2209.130	2195.963	2201.788	2248.418	2201.788
17.5	2323.723	2216.152	2186.999	2272.039	2333.964	2272.039	2186.999	2216.152	2323.723	2216.152
20.0	2310.582	2237.805	2178.380	2291.670	2339.523	2291.670	2178.380	2237.805	2310.582	2237.805
22.5	2225.595	2247.407	2238.230	2214.450	2246.290	2214.450	2238.230	2247.407	2225.595	2247.407
25.0	2144.918	2232.033	2281.402	2173.114	2142.337	2173.114	2281.402	2232.033	2144.918	2232.033
27.5	2143.534	2220.009	2217.695	2153.350	2125.978	2153.350	2217.695	2220.009	2143.534	2220.009
30.0	2052.376	2080.519	2054.584	2056.739	2022.877	2056.739	2054.584	2080.519	2052.376	2080.519
32.5	1857.132	1847.264	1802.389	1838.459	1819.440	1838.459	1802.389	1847.264	1857.132	1847.264
35.0	1646.673	1574.773	1545.726	1586.318	1630.394	1586.318	1545.726	1574.773	1646.673	1574.773
37.5	1393.175	1368.996	1353.062	1365.990	1375.991	1365.990	1353.062	1368.996	1393.175	1368.996
40.0	1094.590	1186.786	1208.518	1140.315	1112.385	1140.315	1208.518	1186.786	1094.590	1186.786
42.5	919.908	985.078	1008.858	942.731	933.953	942.731	1008.858	985.078	919.908	985.078
45.0	741.315	769.059	754.695	754.243	743.949	754.243	754.695	769.059	741.315	769.059
47.5	551.099	597.276	592.409	570.331	561.819	570.331	592.409	597.276	551.099	597.276
50.0	429.138	453.557	458.025	443.475	431.505	443.475	458.025	453.557	429.138	453.557
52.5	341.757	335.479	334.681	343.060	338.086	343.060	334.681	335.479	341.757	335.479
55.0	272.357	255.014	248.790	266.798	268.846	266.798	248.790	255.014	272.357	255.014
57.5	219.317	205.325	198.808	211.763	216.790	211.763	198.808	205.325	219.317	205.325
60.0	177.688	171.597	166.011	173.166	176.996	173.166	166.011	171.597	177.688	171.597
62.5	141.884	141.725	143.188	140.501	142.762	140.501	143.188	141.725	141.884	141.725
65.0	112.172	117.891	119.035	115.737	114.327	115.737	119.035	117.891	112.172	117.891
67.5	97.941	102.969	104.272	100.521	98.952	100.521	104.272	102.969	97.941	102.969
70.0	89.083	92.329	93.765	90.653	89.509	90.653	93.765	92.329	89.083	92.329
72.5	81.130	82.247	83.364	81.449	81.024	81.449	83.364	82.247	81.130	82.247
75.0	74.985	72.804	73.948	73.203	74.320	73.203	73.948	72.804	74.985	72.804
77.5	69.852	64.532	65.489	65.649	68.947	65.649	65.489	64.532	69.852	64.532
80.0	64.292	58.520	58.573	60.276	63.893	60.276	58.573	58.520	64.292	58.520
82.5	58.148	54.929	53.067	56.578	58.626	56.578	53.067	54.929	58.148	54.929
85.0	52.801	51.498	49.476	53.014	53.626	53.014	49.476	51.498	52.801	51.498
87.5	51.524	49.636	48.385	49.822	51.897	49.822	48.385	49.636	51.524	49.636
90.0	52.455	49.689	49.290	50.833	51.843	50.833	49.290	49.689	52.455	49.689
92.5	52.056	52.721	51.843	53.439	51.099	53.439	51.843	52.721	52.056	52.721
95.0	50.008	53.892	55.115	52.136	49.104	52.136	55.115	53.892	50.008	53.892
97.5	49.050	52.961	56.339	51.285	49.130	51.285	56.339	52.961	49.050	52.961
100.0	51.152	54.291	55.913	52.854	51.418	52.854	55.913	54.291	51.152	54.291
102.5	53.040	55.301	55.780	54.796	53.439	54.796	55.780	55.301	53.040	55.301
105.0	54.663	56.099	56.764	55.727	54.663	55.727	56.764	56.099	54.663	56.099
107.5	55.647	56.711	57.030	56.498	55.541	56.498	57.030	56.711	55.647	56.711
110.0	56.259	57.084	56.844	56.738	56.498	56.738	56.844	57.084	56.259	57.084
112.5	56.631	57.376	57.190	56.924	56.711	56.924	57.190	57.376	56.631	57.376
115.0	57.802	58.547	58.493	57.695	57.562	57.695	58.493	58.547	57.802	58.547
117.5	59.451	60.276	59.823	59.212	59.158	59.212	59.823	60.276	59.451	60.276
120.0	61.047	62.111	61.286	60.675	60.542	60.675	61.286	62.111	61.047	62.111
122.5	62.058	63.468	62.670	61.792	61.606	61.792	62.670	63.468	62.058	63.468
125.0	62.483	64.186	63.680	62.483	62.005	62.483	63.680	64.186	62.483	64.186

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127.5	62.776	64.611	64.877	63.122	62.324	63.122	64.877	64.611	62.776	64.611
130.0	63.202	65.489	66.633	64.106	62.962	64.106	66.633	65.489	63.202	65.489
132.5	63.654	66.527	68.016	65.223	63.734	65.223	68.016	66.527	63.654	66.527
135.0	64.266	67.271	68.974	66.367	64.877	66.367	68.974	67.271	64.266	67.271
137.5	65.303	68.229	69.639	67.697	66.340	67.697	69.639	68.229	65.303	68.229
140.0	66.819	69.160	70.304	69.054	68.069	69.054	70.304	69.160	66.819	69.160
142.5	69.240	70.091	70.809	70.756	70.490	70.756	70.809	70.091	69.240	70.091
145.0	72.831	71.740	71.953	73.416	73.709	73.416	71.953	71.740	72.831	71.740
147.5	76.236	74.560	74.294	76.608	77.353	76.608	74.294	74.560	76.236	74.560
150.0	81.077	79.773	79.880	81.928	82.779	81.928	79.880	79.773	81.077	79.773
152.5	87.993	87.221	87.487	88.871	89.190	88.871	87.487	87.221	87.993	87.221
155.0	92.435	93.712	94.776	94.350	93.526	94.350	94.776	93.712	92.435	93.712
157.5	94.350	97.276	98.925	97.675	96.771	97.675	98.925	97.276	94.350	97.276
160.0	96.638	97.835	99.058	98.473	98.713	98.473	99.058	97.835	96.638	97.835
162.5	98.181	96.718	97.117	96.718	98.473	96.718	97.117	96.718	98.181	96.718
165.0	97.915	95.228	95.122	95.148	97.170	95.148	95.122	95.228	97.915	95.228
167.5	97.117	94.669	94.111	94.616	96.159	94.616	94.111	94.669	97.117	94.669
170.0	95.255	93.871	93.180	93.818	94.723	93.818	93.180	93.871	95.255	93.871
172.5	93.845	93.765	92.807	93.419	93.871	93.419	92.807	93.765	93.845	93.765
175.0	98.393	99.644	99.537	99.457	98.739	99.457	99.537	99.644	98.393	99.644
177.5	109.379	112.279	113.343	112.199	110.523	112.199	113.343	112.279	109.379	112.279
180.0	117.306	117.306	117.306	117.306	117.306	117.306	117.306	117.306	117.306	117.306

**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	1969.597	1969.597	1969.597	1969.597	1969.597	1969.597	1969.597
2.5	1963.905	1965.208	1958.611	1965.208	1963.905	1962.920	1957.095
5.0	1940.603	1935.389	1932.357	1935.389	1940.603	1941.295	1939.246
7.5	1982.684	1964.437	1973.959	1964.437	1982.684	1985.451	1984.520
10.0	2119.594	2054.212	2034.714	2054.212	2119.594	2092.808	2054.079
12.5	2177.928	2134.012	2116.429	2134.012	2177.928	2167.927	2139.012
15.0	2195.963	2209.130	2244.189	2209.130	2195.963	2201.788	2248.418
17.5	2186.999	2272.039	2333.964	2272.039	2186.999	2216.152	2323.723
20.0	2178.380	2291.670	2339.523	2291.670	2178.380	2237.805	2310.582
22.5	2238.230	2214.450	2246.290	2214.450	2238.230	2247.407	2225.595
25.0	2281.402	2173.114	2142.337	2173.114	2281.402	2232.033	2144.918
27.5	2217.695	2153.350	2125.978	2153.350	2217.695	2220.009	2143.534
30.0	2054.584	2056.739	2022.877	2056.739	2054.584	2080.519	2052.376
32.5	1802.389	1838.459	1819.440	1838.459	1802.389	1847.264	1857.132
35.0	1545.726	1586.318	1630.394	1586.318	1545.726	1574.773	1646.673
37.5	1353.062	1365.990	1375.991	1365.990	1353.062	1368.996	1393.175
40.0	1208.518	1140.315	1112.385	1140.315	1208.518	1186.786	1094.590
42.5	1008.858	942.731	933.953	942.731	1008.858	985.078	919.908
45.0	754.695	754.243	743.949	754.243	754.695	769.059	741.315
47.5	592.409	570.331	561.819	570.331	592.409	597.276	551.099
50.0	458.025	443.475	431.505	443.475	458.025	453.557	429.138
52.5	334.681	343.060	338.086	343.060	334.681	335.479	341.757
55.0	248.790	266.798	268.846	266.798	248.790	255.014	272.357
57.5	198.808	211.763	216.790	211.763	198.808	205.325	219.317
60.0	166.011	173.166	176.996	173.166	166.011	171.597	177.688
62.5	143.188	140.501	142.762	140.501	143.188	141.725	141.884
65.0	119.035	115.737	114.327	115.737	119.035	117.891	112.172

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CANDELA TABULATION - (Cont.)

67.5	104.272	100.521	98.952	100.521	104.272	102.969	97.941
70.0	93.765	90.653	89.509	90.653	93.765	92.329	89.083
72.5	83.364	81.449	81.024	81.449	83.364	82.247	81.130
75.0	73.948	73.203	74.320	73.203	73.948	72.804	74.985
77.5	65.489	65.649	68.947	65.649	65.489	64.532	69.852
80.0	58.573	60.276	63.893	60.276	58.573	58.520	64.292
82.5	53.067	56.578	58.626	56.578	53.067	54.929	58.148
85.0	49.476	53.014	53.626	53.014	49.476	51.498	52.801
87.5	48.385	49.822	51.897	49.822	48.385	49.636	51.524
90.0	49.290	50.833	51.843	50.833	49.290	49.689	52.455
92.5	51.843	53.439	51.099	53.439	51.843	52.721	52.056
95.0	55.115	52.136	49.104	52.136	55.115	53.892	50.008
97.5	56.339	51.285	49.130	51.285	56.339	52.961	49.050
100.0	55.913	52.854	51.418	52.854	55.913	54.291	51.152
102.5	55.780	54.796	53.439	54.796	55.780	55.301	53.040
105.0	56.764	55.727	54.663	55.727	56.764	56.099	54.663
107.5	57.030	56.498	55.541	56.498	57.030	56.711	55.647
110.0	56.844	56.738	56.498	56.738	56.844	57.084	56.259
112.5	57.190	56.924	56.711	56.924	57.190	57.376	56.631
115.0	58.493	57.695	57.562	57.695	58.493	58.547	57.802
117.5	59.823	59.212	59.158	59.212	59.823	60.276	59.451
120.0	61.286	60.675	60.542	60.675	61.286	62.111	61.047
122.5	62.670	61.792	61.606	61.792	62.670	63.468	62.058
125.0	63.680	62.483	62.005	62.483	63.680	64.186	62.483
127.5	64.877	63.122	62.324	63.122	64.877	64.611	62.776
130.0	66.633	64.106	62.962	64.106	66.633	65.489	63.202
132.5	68.016	65.223	63.734	65.223	68.016	66.527	63.654
135.0	68.974	66.367	64.877	66.367	68.974	67.271	64.266
137.5	69.639	67.697	66.340	67.697	69.639	68.229	65.303
140.0	70.304	69.054	68.069	69.054	70.304	69.160	66.819
142.5	70.809	70.756	70.490	70.756	70.809	70.091	69.240
145.0	71.953	73.416	73.709	73.416	71.953	71.740	72.831
147.5	74.294	76.608	77.353	76.608	74.294	74.560	76.236
150.0	79.880	81.928	82.779	81.928	79.880	79.773	81.077
152.5	87.487	88.871	89.190	88.871	87.487	87.221	87.993
155.0	94.776	94.350	93.526	94.350	94.776	93.712	92.435
157.5	98.925	97.675	96.771	97.675	98.925	97.276	94.350
160.0	99.058	98.473	98.713	98.473	99.058	97.835	96.638
162.5	97.117	96.718	98.473	96.718	97.117	96.718	98.181
165.0	95.122	95.148	97.170	95.148	95.122	95.228	97.915
167.5	94.111	94.616	96.159	94.616	94.111	94.669	97.117
170.0	93.180	93.818	94.723	93.818	93.180	93.871	95.255
172.5	92.807	93.419	93.871	93.419	92.807	93.765	93.845
175.0	99.537	99.457	98.739	99.457	99.537	99.644	98.393
177.5	113.343	112.199	110.523	112.199	113.343	112.279	109.379
180.0	117.306	117.306	117.306	117.306	117.306	117.306	117.306

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	814.95	N.A.	18.80
0-30	1828.83	N.A.	42.30
0-40	2821.98	N.A.	65.20
0-60	3663.06	N.A.	84.60
0-80	3863.23	N.A.	89.30
0-90	3921.28	N.A.	90.60
10-90	3731.55	N.A.	86.20
20-40	2007.03	N.A.	46.40
20-50	2600.05	N.A.	60.10
40-70	962.59	N.A.	22.20
60-80	200.18	N.A.	4.60
70-80	78.66	N.A.	1.80
80-90	58.05	N.A.	1.30
90-110	115.91	N.A.	2.70
90-120	173.90	N.A.	4.00
90-130	230.48	N.A.	5.30
90-150	328.16	N.A.	7.60
90-180	407.26	N.A.	9.40
110-180	291.35	N.A.	6.70
0-180	4328.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	189.73
10-20	625.22
20-30	1013.89
30-40	993.15
40-50	593.02
50-60	248.06
60-70	121.51
70-80	78.66
80-90	58.05
90-100	57.15
100-110	58.76
110-120	57.98
120-130	56.58
130-140	51.73
140-150	45.95
150-160	42.45
160-170	27.28
170-180	9.36

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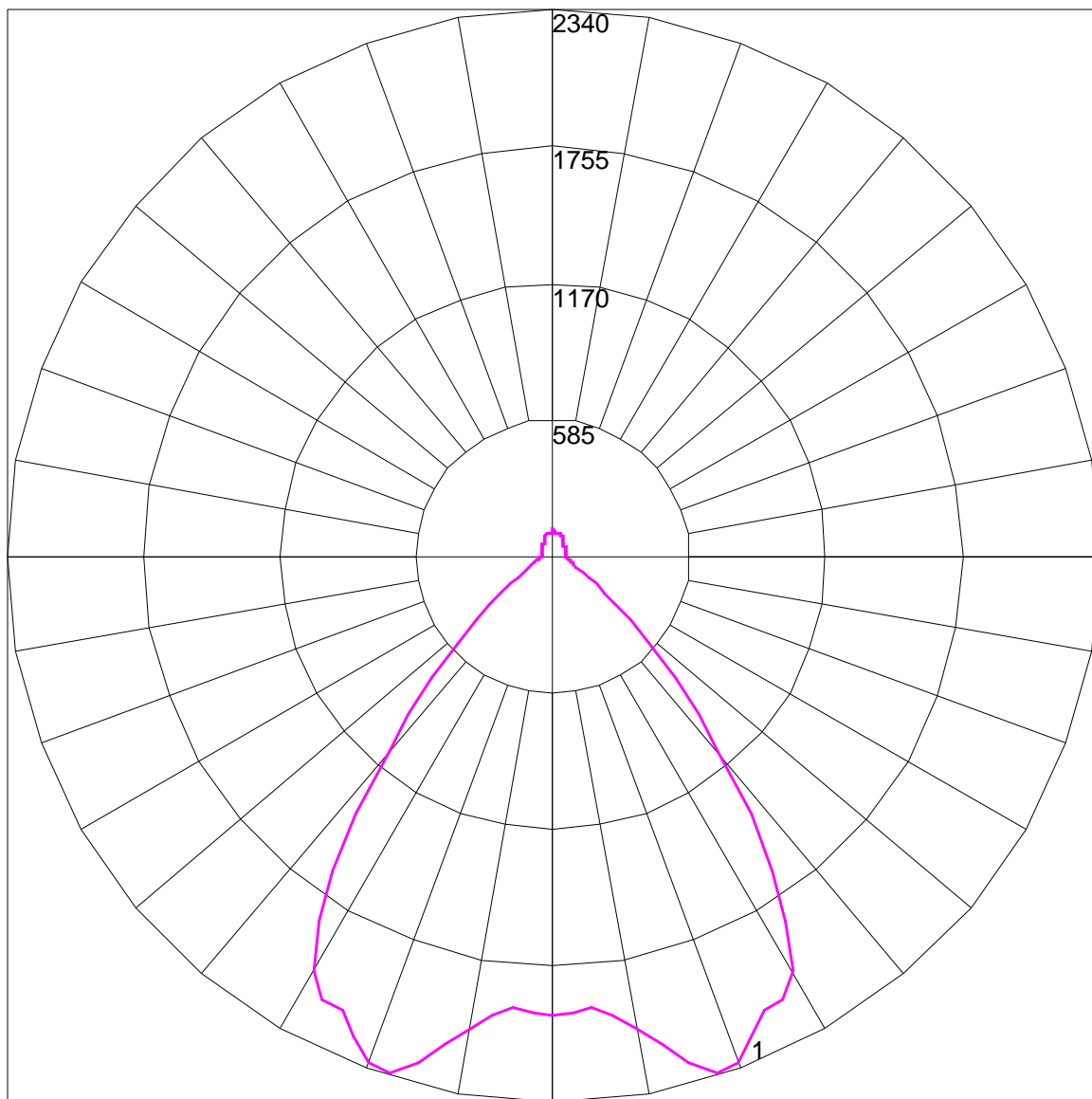
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

IES INDOOR REPORT
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POLAR GRAPH



Maximum Candela = 2339.523 Located At Horizontal Angle = 90, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)