

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRSUR22LEDGV-37L35K-EX-PR22CNFR.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [LUMCAT] PRDDH22LEDGV-37L-35K-Ex/xx/xx/PR22/CNFR/XX
 [LUMINAIRE] LED High Bay - Prismatic Refractor Conical Lens, inside frosted
 [LAMP] N/A
 [TEST] PRDDH22LEDGV-37L-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	2945
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	26
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	1531	1559	1537
55	581	531	574
65	256	271	261
75	189	187	188
85	155	145	157

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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	1340.214	1340.214	1340.214	1340.214	1340.214	1340.214	1340.214	1340.214	1340.214	1340.214
2.5	1331.707	1335.671	1336.341	1337.228	1332.739	1337.228	1336.341	1335.671	1331.707	1335.671
5.0	1319.562	1320.956	1320.485	1316.938	1314.874	1316.938	1320.485	1320.956	1319.562	1320.956
7.5	1350.369	1351.002	1349.120	1336.703	1343.183	1336.703	1349.120	1351.002	1350.369	1351.002
10.0	1397.700	1424.054	1442.280	1397.791	1384.523	1397.791	1442.280	1424.054	1397.700	1424.054
12.5	1455.493	1475.168	1481.974	1452.091	1440.126	1452.091	1481.974	1475.168	1455.493	1475.168
15.0	1529.939	1498.209	1494.245	1503.205	1527.061	1503.205	1494.245	1498.209	1529.939	1498.209
17.5	1581.180	1507.983	1488.146	1546.011	1588.148	1546.011	1488.146	1507.983	1581.180	1507.983
20.0	1572.238	1522.717	1482.281	1559.369	1591.931	1559.369	1482.281	1522.717	1572.238	1522.717
22.5	1514.409	1529.251	1523.006	1506.825	1528.491	1506.825	1523.006	1529.251	1514.409	1529.251
25.0	1459.512	1518.789	1552.383	1478.698	1457.756	1478.698	1552.383	1518.789	1459.512	1518.789
27.5	1458.570	1510.608	1509.033	1465.249	1446.624	1465.249	1509.033	1510.608	1458.570	1510.608
30.0	1396.542	1415.691	1398.044	1399.510	1376.469	1399.510	1398.044	1415.691	1396.542	1415.691
32.5	1263.688	1256.973	1226.438	1250.981	1238.040	1250.981	1226.438	1256.973	1263.688	1256.973
35.0	1120.480	1071.556	1051.791	1079.412	1109.403	1079.412	1051.791	1071.556	1120.480	1071.556
37.5	947.987	931.535	920.693	929.489	936.295	929.489	920.693	931.535	947.987	931.535
40.0	744.815	807.550	822.337	775.929	756.924	775.929	822.337	807.550	744.815	807.550
42.5	625.952	670.297	686.479	641.482	635.509	641.482	686.479	670.297	625.952	670.297
45.0	504.429	523.307	513.533	513.225	506.221	513.225	513.533	523.307	504.429	523.307
47.5	374.996	406.417	403.105	388.082	382.290	388.082	403.105	406.417	374.996	406.417
50.0	292.007	308.623	311.664	301.763	293.618	301.763	311.664	308.623	292.007	308.623
52.5	232.549	228.277	227.734	233.436	230.051	233.436	227.734	228.277	232.549	228.277
55.0	185.326	173.525	169.289	181.543	182.937	181.543	169.289	173.525	185.326	173.525
57.5	149.234	139.714	135.279	144.094	147.515	144.094	135.279	139.714	149.234	139.714
60.0	120.908	116.763	112.962	117.831	120.437	117.831	112.962	116.763	120.908	116.763
62.5	96.545	96.437	97.432	95.604	97.143	95.604	97.432	96.437	96.545	96.437
65.0	76.328	80.219	80.997	78.753	77.794	78.753	80.997	80.219	76.328	80.219
67.5	66.644	70.065	70.952	68.400	67.332	68.400	70.952	70.065	66.644	70.065
70.0	60.617	62.825	63.802	61.685	60.906	61.685	63.802	62.825	60.617	62.825
72.5	55.205	55.965	56.725	55.422	55.133	55.422	56.725	55.965	55.205	55.965
75.0	51.024	49.540	50.318	49.811	50.571	49.811	50.318	49.540	51.024	49.540
77.5	47.531	43.911	44.562	44.671	46.915	44.671	44.562	43.911	47.531	43.911
80.0	43.748	39.820	39.856	41.015	43.476	41.015	39.856	39.820	43.748	39.820
82.5	39.567	37.376	36.109	38.499	39.892	38.499	36.109	37.376	39.567	37.376
85.0	35.928	35.042	33.666	36.073	36.490	36.073	33.666	35.042	35.928	35.042
87.5	35.060	33.775	32.924	33.901	35.313	33.901	32.924	33.775	35.060	33.775
90.0	35.693	33.811	33.539	34.589	35.277	34.589	33.539	33.811	35.693	33.811
92.5	35.422	35.874	35.277	36.363	34.770	36.363	35.277	35.874	35.422	35.874
95.0	34.028	36.671	37.503	35.476	33.413	35.476	37.503	36.671	34.028	36.671
97.5	33.376	36.037	38.336	34.897	33.431	34.897	38.336	36.037	33.376	36.037
100.0	34.806	36.942	38.046	35.965	34.987	35.965	38.046	36.942	34.806	36.942
102.5	36.091	37.630	37.956	37.286	36.363	37.286	37.956	37.630	36.091	37.630
105.0	37.195	38.173	38.625	37.919	37.195	37.919	38.625	38.173	37.195	38.173
107.5	37.865	38.589	38.806	38.444	37.793	38.444	38.806	38.589	37.865	38.589
110.0	38.281	38.843	38.680	38.607	38.444	38.607	38.680	38.843	38.281	38.843
112.5	38.535	39.042	38.915	38.734	38.589	38.734	38.915	39.042	38.535	39.042
115.0	39.331	39.838	39.802	39.259	39.168	39.259	39.802	39.838	39.331	39.838
117.5	40.453	41.015	40.707	40.291	40.254	40.291	40.707	41.015	40.453	41.015
120.0	41.539	42.263	41.702	41.286	41.196	41.286	41.702	42.263	41.539	42.263
122.5	42.227	43.187	42.644	42.046	41.920	42.046	42.644	43.187	42.227	43.187
125.0	42.517	43.675	43.331	42.517	42.191	42.517	43.331	43.675	42.517	43.675

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CANDELA TABULATION - (Cont.)

127.5	42.716	43.965	44.146	42.951	42.408	42.951	44.146	43.965	42.716	43.965
130.0	43.006	44.562	45.340	43.621	42.843	43.621	45.340	44.562	43.006	44.562
132.5	43.313	45.268	46.282	44.381	43.368	44.381	46.282	45.268	43.313	45.268
135.0	43.730	45.775	46.933	45.159	44.146	45.159	46.933	45.775	43.730	45.775
137.5	44.435	46.426	47.386	46.064	45.141	46.064	47.386	46.426	44.435	46.426
140.0	45.467	47.060	47.838	46.988	46.318	46.988	47.838	47.060	45.467	47.060
142.5	47.114	47.693	48.182	48.146	47.965	48.146	48.182	47.693	47.114	47.693
145.0	49.558	48.816	48.960	49.956	50.155	49.956	48.960	48.816	49.558	48.816
147.5	51.875	50.734	50.553	52.128	52.635	52.128	50.553	50.734	51.875	50.734
150.0	55.169	54.282	54.354	55.748	56.327	55.748	54.354	54.282	55.169	54.282
152.5	59.875	59.350	59.531	60.472	60.689	60.472	59.531	59.350	59.875	59.350
155.0	62.897	63.766	64.490	64.201	63.640	64.201	64.490	63.766	62.897	63.766
157.5	64.201	66.192	67.314	66.463	65.848	66.463	67.314	66.192	64.201	66.192
160.0	65.757	66.572	67.404	67.006	67.169	67.006	67.404	66.572	65.757	66.572
162.5	66.807	65.812	66.083	65.812	67.006	65.812	66.083	65.812	66.807	65.812
165.0	66.626	64.798	64.726	64.744	66.119	64.744	64.726	64.798	66.626	64.798
167.5	66.083	64.418	64.038	64.382	65.431	64.382	64.038	64.418	66.083	64.418
170.0	64.816	63.875	63.404	63.839	64.454	63.839	63.404	63.875	64.816	63.875
172.5	63.857	63.802	63.151	63.567	63.875	63.567	63.151	63.802	63.857	63.802
175.0	66.952	67.803	67.730	67.676	67.187	67.676	67.730	67.803	66.952	67.803
177.5	74.427	76.400	77.124	76.346	75.205	76.346	77.124	76.400	74.427	76.400
180.0	79.821	79.821	79.821	79.821	79.821	79.821	79.821	79.821	79.821	79.821

**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	1340.214	1340.214	1340.214	1340.214	1340.214	1340.214	1340.214
2.5	1336.341	1337.228	1332.739	1337.228	1336.341	1335.671	1331.707
5.0	1320.485	1316.938	1314.874	1316.938	1320.485	1320.956	1319.562
7.5	1349.120	1336.703	1343.183	1336.703	1349.120	1351.002	1350.369
10.0	1442.280	1397.791	1384.523	1397.791	1442.280	1424.054	1397.700
12.5	1481.974	1452.091	1440.126	1452.091	1481.974	1475.168	1455.493
15.0	1494.245	1503.205	1527.061	1503.205	1494.245	1498.209	1529.939
17.5	1488.146	1546.011	1588.148	1546.011	1488.146	1507.983	1581.180
20.0	1482.281	1559.369	1591.931	1559.369	1482.281	1522.717	1572.238
22.5	1523.006	1506.825	1528.491	1506.825	1523.006	1529.251	1514.409
25.0	1552.383	1478.698	1457.756	1478.698	1552.383	1518.789	1459.512
27.5	1509.033	1465.249	1446.624	1465.249	1509.033	1510.608	1458.570
30.0	1398.044	1399.510	1376.469	1399.510	1398.044	1415.691	1396.542
32.5	1226.438	1250.981	1238.040	1250.981	1226.438	1256.973	1263.688
35.0	1051.791	1079.412	1109.403	1079.412	1051.791	1071.556	1120.480
37.5	920.693	929.489	936.295	929.489	920.693	931.535	947.987
40.0	822.337	775.929	756.924	775.929	822.337	807.550	744.815
42.5	686.479	641.482	635.509	641.482	686.479	670.297	625.952
45.0	513.533	513.225	506.221	513.225	513.533	523.307	504.429
47.5	403.105	388.082	382.290	388.082	403.105	406.417	374.996
50.0	311.664	301.763	293.618	301.763	311.664	308.623	292.007
52.5	227.734	233.436	230.051	233.436	227.734	228.277	232.549
55.0	169.289	181.543	182.937	181.543	169.289	173.525	185.326
57.5	135.279	144.094	147.515	144.094	135.279	139.714	149.234
60.0	112.962	117.831	120.437	117.831	112.962	116.763	120.908
62.5	97.432	95.604	97.143	95.604	97.432	96.437	96.545
65.0	80.997	78.753	77.794	78.753	80.997	80.219	76.328

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CANDELA TABULATION - (Cont.)

67.5	70.952	68.400	67.332	68.400	70.952	70.065	66.644
70.0	63.802	61.685	60.906	61.685	63.802	62.825	60.617
72.5	56.725	55.422	55.133	55.422	56.725	55.965	55.205
75.0	50.318	49.811	50.571	49.811	50.318	49.540	51.024
77.5	44.562	44.671	46.915	44.671	44.562	43.911	47.531
80.0	39.856	41.015	43.476	41.015	39.856	39.820	43.748
82.5	36.109	38.499	39.892	38.499	36.109	37.376	39.567
85.0	33.666	36.073	36.490	36.073	33.666	35.042	35.928
87.5	32.924	33.901	35.313	33.901	32.924	33.775	35.060
90.0	33.539	34.589	35.277	34.589	33.539	33.811	35.693
92.5	35.277	36.363	34.770	36.363	35.277	35.874	35.422
95.0	37.503	35.476	33.413	35.476	37.503	36.671	34.028
97.5	38.336	34.897	33.431	34.897	38.336	36.037	33.376
100.0	38.046	35.965	34.987	35.965	38.046	36.942	34.806
102.5	37.956	37.286	36.363	37.286	37.956	37.630	36.091
105.0	38.625	37.919	37.195	37.919	38.625	38.173	37.195
107.5	38.806	38.444	37.793	38.444	38.806	38.589	37.865
110.0	38.680	38.607	38.444	38.607	38.680	38.843	38.281
112.5	38.915	38.734	38.589	38.734	38.915	39.042	38.535
115.0	39.802	39.259	39.168	39.259	39.802	39.838	39.331
117.5	40.707	40.291	40.254	40.291	40.707	41.015	40.453
120.0	41.702	41.286	41.196	41.286	41.702	42.263	41.539
122.5	42.644	42.046	41.920	42.046	42.644	43.187	42.227
125.0	43.331	42.517	42.191	42.517	43.331	43.675	42.517
127.5	44.146	42.951	42.408	42.951	44.146	43.965	42.716
130.0	45.340	43.621	42.843	43.621	45.340	44.562	43.006
132.5	46.282	44.381	43.368	44.381	46.282	45.268	43.313
135.0	46.933	45.159	44.146	45.159	46.933	45.775	43.730
137.5	47.386	46.064	45.141	46.064	47.386	46.426	44.435
140.0	47.838	46.988	46.318	46.988	47.838	47.060	45.467
142.5	48.182	48.146	47.965	48.146	48.182	47.693	47.114
145.0	48.960	49.956	50.155	49.956	48.960	48.816	49.558
147.5	50.553	52.128	52.635	52.128	50.553	50.734	51.875
150.0	54.354	55.748	56.327	55.748	54.354	54.282	55.169
152.5	59.531	60.472	60.689	60.472	59.531	59.350	59.875
155.0	64.490	64.201	63.640	64.201	64.490	63.766	62.897
157.5	67.314	66.463	65.848	66.463	67.314	66.192	64.201
160.0	67.404	67.006	67.169	67.006	67.404	66.572	65.757
162.5	66.083	65.812	67.006	65.812	66.083	65.812	66.807
165.0	64.726	64.744	66.119	64.744	64.726	64.798	66.626
167.5	64.038	64.382	65.431	64.382	64.038	64.418	66.083
170.0	63.404	63.839	64.454	63.839	63.404	63.875	64.816
172.5	63.151	63.567	63.875	63.567	63.151	63.802	63.857
175.0	67.730	67.676	67.187	67.676	67.730	67.803	66.952
177.5	77.124	76.346	75.205	76.346	77.124	76.400	74.427
180.0	79.821	79.821	79.821	79.821	79.821	79.821	79.821

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	554.53	N.A.	18.80
0-30	1244.43	N.A.	42.30
0-40	1920.22	N.A.	65.20
0-60	2492.53	N.A.	84.60
0-80	2628.74	N.A.	89.30
0-90	2668.24	N.A.	90.60
10-90	2539.14	N.A.	86.20
20-40	1365.69	N.A.	46.40
20-50	1769.21	N.A.	60.10
40-70	654.99	N.A.	22.20
60-80	136.21	N.A.	4.60
70-80	53.53	N.A.	1.80
80-90	39.50	N.A.	1.30
90-110	78.87	N.A.	2.70
90-120	118.33	N.A.	4.00
90-130	156.83	N.A.	5.30
90-150	223.30	N.A.	7.60
90-180	277.12	N.A.	9.40
110-180	198.25	N.A.	6.70
0-180	2945.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.10
10-20	425.43
20-30	689.90
30-40	675.79
40-50	403.52
50-60	168.79
60-70	82.68
70-80	53.53
80-90	39.50
90-100	38.89
100-110	39.98
110-120	39.46
120-130	38.50
130-140	35.20
140-150	31.27
150-160	28.88
160-170	18.56
170-180	6.37

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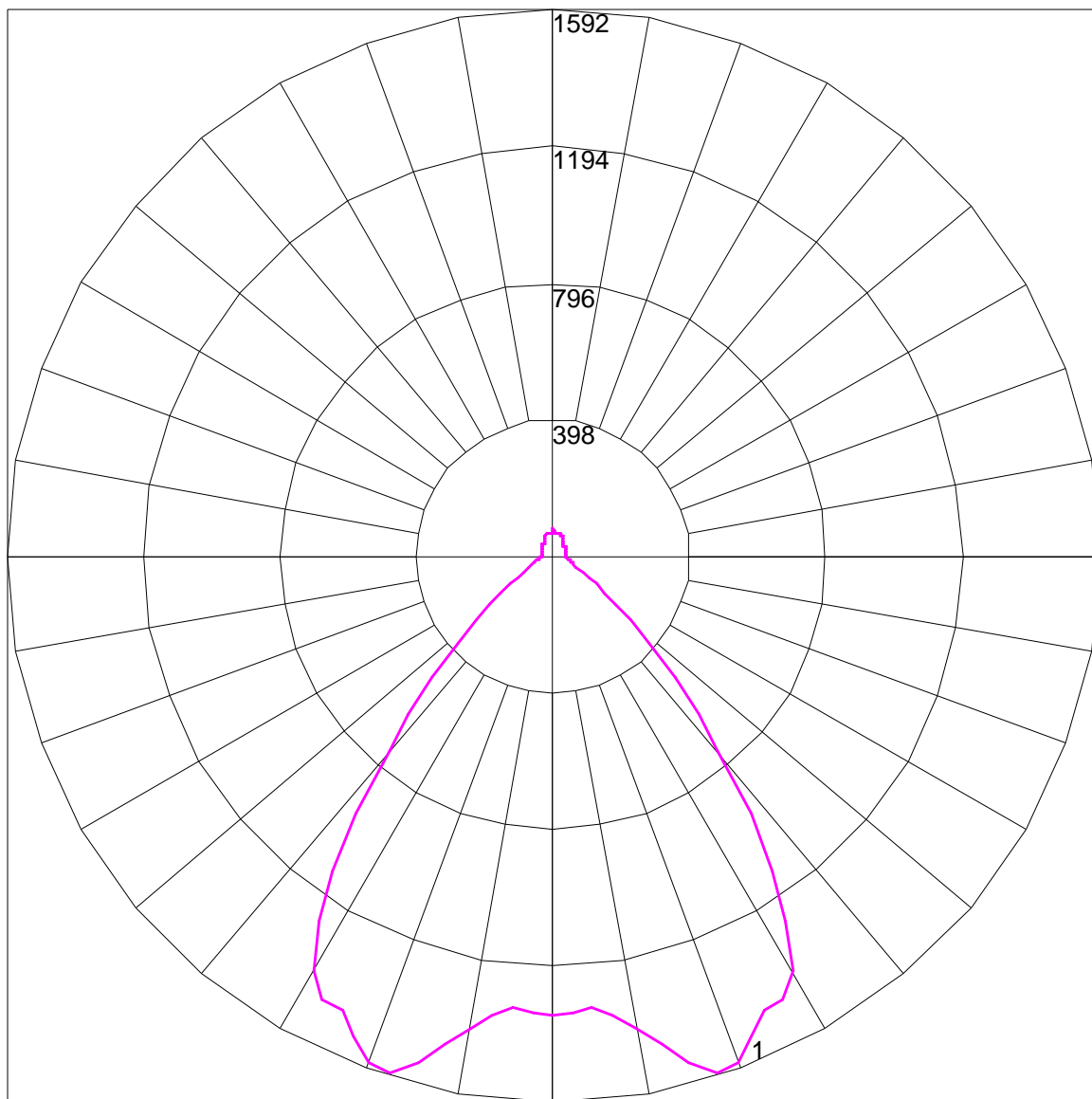
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRSUR22LEDGV-37L35K-EX-PR22CNFR.IES

POLAR GRAPH



Maximum Candela = 1591.931 Located At Horizontal Angle = 90, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)