

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PRSUR22LEDGV-15L35K-EX-PR22CNFR.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[LUMCAT] PRDDH22LEDGV-15L-35K-Ex/xx/xx/PR22/CNFR/XX
[LUMINAIRE] LED High Bay - Prismatic Refractor Conical Lens, inside frosted
[LAMP] N/A
[TEST] PRDDH22LEDGV-15L-35KEx/xx/xx/PR22/CNFR/XX
[TESTLAB] Intertek
[ISSUE DATE] 10/27/2015
[UPDATE] 7/30/2019
[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	1139
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	592	603	594
55	225	205	222
65	99	105	101
75	73	72	73
85	60	56	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>
0.0	518.315	518.315	518.315	518.315	518.315	518.315	518.315	518.315	518.315	518.315
2.5	515.025	516.558	516.817	517.160	515.424	517.160	516.817	516.558	515.025	516.558
5.0	510.328	510.867	510.685	509.313	508.515	509.313	510.685	510.867	510.328	510.867
7.5	522.242	522.487	521.759	516.957	519.463	516.957	521.759	522.487	522.242	522.487
10.0	540.547	550.739	557.788	540.582	535.451	540.582	557.788	550.739	540.547	550.739
12.5	562.898	570.507	573.139	561.582	556.955	561.582	573.139	570.507	562.898	570.507
15.0	591.689	579.418	577.885	581.350	590.576	581.350	577.885	579.418	591.689	579.418
17.5	611.506	583.198	575.526	597.905	614.201	597.905	575.526	583.198	611.506	583.198
20.0	608.048	588.896	573.258	603.071	615.664	603.071	573.258	588.896	608.048	588.896
22.5	585.683	591.423	589.008	582.750	591.129	582.750	589.008	591.423	585.683	591.423
25.0	564.452	587.377	600.369	571.872	563.773	571.872	600.369	587.377	564.452	587.377
27.5	564.088	584.213	583.604	566.671	559.468	566.671	583.604	584.213	564.088	584.213
30.0	540.099	547.505	540.680	541.247	532.336	541.247	540.680	547.505	540.099	547.505
32.5	488.719	486.122	474.313	483.805	478.800	483.805	474.313	486.122	488.719	486.122
35.0	433.335	414.414	406.770	417.452	429.051	417.452	406.770	414.414	433.335	414.414
37.5	366.625	360.262	356.069	359.471	362.103	359.471	356.069	360.262	366.625	360.262
40.0	288.050	312.312	318.031	300.083	292.733	300.083	318.031	312.312	288.050	312.312
42.5	242.081	259.231	265.489	248.087	245.777	248.087	265.489	259.231	242.081	259.231
45.0	195.083	202.384	198.604	198.485	195.776	198.485	198.604	202.384	195.083	202.384
47.5	145.026	157.178	155.897	150.087	147.847	150.087	155.897	157.178	145.026	157.178
50.0	112.931	119.357	120.533	116.704	113.554	116.704	120.533	119.357	112.931	119.357
52.5	89.936	88.284	88.074	90.279	88.970	90.279	88.074	88.284	89.936	88.284
55.0	71.673	67.109	65.471	70.210	70.749	70.210	65.471	67.109	71.673	67.109
57.5	57.715	54.033	52.318	55.727	57.050	55.727	52.318	54.033	57.715	54.033
60.0	46.760	45.157	43.687	45.570	46.578	45.570	43.687	45.157	46.760	45.157
62.5	37.338	37.296	37.681	36.974	37.569	36.974	37.681	37.296	37.338	37.296
65.0	29.519	31.024	31.325	30.457	30.086	30.457	31.325	31.024	29.519	31.024
67.5	25.774	27.097	27.440	26.453	26.040	26.453	27.440	27.097	25.774	27.097
70.0	23.443	24.297	24.675	23.856	23.555	23.856	24.675	24.297	23.443	24.297
72.5	21.350	21.644	21.938	21.434	21.322	21.434	21.938	21.644	21.350	21.644
75.0	19.733	19.159	19.460	19.264	19.558	19.264	19.460	19.159	19.733	19.159
77.5	18.382	16.982	17.234	17.276	18.144	17.276	17.234	16.982	18.382	16.982
80.0	16.919	15.400	15.414	15.862	16.814	15.862	15.414	15.400	16.919	15.400
82.5	15.302	14.455	13.965	14.889	15.428	14.889	13.965	14.455	15.302	14.455
85.0	13.895	13.552	13.020	13.951	14.112	13.951	13.020	13.552	13.895	13.552
87.5	13.559	13.062	12.733	13.111	13.657	13.111	12.733	13.062	13.559	13.062
90.0	13.804	13.076	12.971	13.377	13.643	13.377	12.971	13.076	13.804	13.076
92.5	13.699	13.874	13.643	14.063	13.447	14.063	13.643	13.874	13.699	13.874
95.0	13.160	14.182	14.504	13.720	12.922	13.720	14.504	14.182	13.160	14.182
97.5	12.908	13.937	14.826	13.496	12.929	13.496	14.826	13.937	12.908	13.937
100.0	13.461	14.287	14.714	13.909	13.531	13.909	14.714	14.287	13.461	14.287
102.5	13.958	14.553	14.679	14.420	14.063	14.420	14.679	14.553	13.958	14.553
105.0	14.385	14.763	14.938	14.665	14.385	14.665	14.938	14.763	14.385	14.763
107.5	14.644	14.924	15.008	14.868	14.616	14.868	15.008	14.924	14.644	14.924
110.0	14.805	15.022	14.959	14.931	14.868	14.931	14.959	15.022	14.805	15.022
112.5	14.903	15.099	15.050	14.980	14.924	14.980	15.050	15.099	14.903	15.099
115.0	15.211	15.407	15.393	15.183	15.148	15.183	15.393	15.407	15.211	15.407
117.5	15.645	15.862	15.743	15.582	15.568	15.582	15.743	15.862	15.645	15.862
120.0	16.065	16.345	16.128	15.967	15.932	15.967	16.128	16.345	16.065	16.345
122.5	16.331	16.702	16.492	16.261	16.212	16.261	16.492	16.702	16.331	16.702
125.0	16.443	16.891	16.758	16.443	16.317	16.443	16.758	16.891	16.443	16.891

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127.5	16.520	17.003	17.073	16.611	16.401	16.611	17.073	17.003	16.520	17.003
130.0	16.632	17.234	17.535	16.870	16.569	16.870	17.535	17.234	16.632	17.234
132.5	16.751	17.507	17.899	17.164	16.772	17.164	17.899	17.507	16.751	17.507
135.0	16.912	17.703	18.151	17.465	17.073	17.465	18.151	17.703	16.912	17.703
137.5	17.185	17.955	18.326	17.815	17.458	17.815	18.326	17.955	17.185	17.955
140.0	17.584	18.200	18.501	18.172	17.913	18.172	18.501	18.200	17.584	18.200
142.5	18.221	18.445	18.634	18.620	18.550	18.620	18.634	18.445	18.221	18.445
145.0	19.166	18.879	18.935	19.320	19.397	19.320	18.935	18.879	19.166	18.879
147.5	20.062	19.621	19.551	20.160	20.356	20.160	19.551	19.621	20.062	19.621
150.0	21.336	20.993	21.021	21.560	21.784	21.560	21.021	20.993	21.336	20.993
152.5	23.156	22.953	23.023	23.387	23.471	23.387	23.023	22.953	23.156	22.953
155.0	24.325	24.661	24.941	24.829	24.612	24.829	24.941	24.661	24.325	24.661
157.5	24.829	25.599	26.033	25.704	25.466	25.704	26.033	25.599	24.829	25.599
160.0	25.431	25.746	26.068	25.914	25.977	25.914	26.068	25.746	25.431	25.746
162.5	25.837	25.452	25.557	25.452	25.914	25.452	25.557	25.452	25.837	25.452
165.0	25.767	25.060	25.032	25.039	25.571	25.039	25.032	25.060	25.767	25.060
167.5	25.557	24.913	24.766	24.899	25.305	24.899	24.766	24.913	25.557	24.913
170.0	25.067	24.703	24.521	24.689	24.927	24.689	24.521	24.703	25.067	24.703
172.5	24.696	24.675	24.423	24.584	24.703	24.584	24.423	24.675	24.696	24.675
175.0	25.893	26.222	26.194	26.173	25.984	26.173	26.194	26.222	25.893	26.222
177.5	28.784	29.547	29.827	29.526	29.085	29.526	29.827	29.547	28.784	29.547
180.0	30.870	30.870	30.870	30.870	30.870	30.870	30.870	30.870	30.870	30.870

**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	518.315	518.315	518.315	518.315	518.315	518.315	518.315
2.5	516.817	517.160	515.424	517.160	516.817	516.558	515.025
5.0	510.685	509.313	508.515	509.313	510.685	510.867	510.328
7.5	521.759	516.957	519.463	516.957	521.759	522.487	522.242
10.0	557.788	540.582	535.451	540.582	557.788	550.739	540.547
12.5	573.139	561.582	556.955	561.582	573.139	570.507	562.898
15.0	577.885	581.350	590.576	581.350	577.885	579.418	591.689
17.5	575.526	597.905	614.201	597.905	575.526	583.198	611.506
20.0	573.258	603.071	615.664	603.071	573.258	588.896	608.048
22.5	589.008	582.750	591.129	582.750	589.008	591.423	585.683
25.0	600.369	571.872	563.773	571.872	600.369	587.377	564.452
27.5	583.604	566.671	559.468	566.671	583.604	584.213	564.088
30.0	540.680	541.247	532.336	541.247	540.680	547.505	540.099
32.5	474.313	483.805	478.800	483.805	474.313	486.122	488.719
35.0	406.770	417.452	429.051	417.452	406.770	414.414	433.335
37.5	356.069	359.471	362.103	359.471	356.069	360.262	366.625
40.0	318.031	300.083	292.733	300.083	318.031	312.312	288.050
42.5	265.489	248.087	245.777	248.087	265.489	259.231	242.081
45.0	198.604	198.485	195.776	198.485	198.604	202.384	195.083
47.5	155.897	150.087	147.847	150.087	155.897	157.178	145.026
50.0	120.533	116.704	113.554	116.704	120.533	119.357	112.931
52.5	88.074	90.279	88.970	90.279	88.074	88.284	89.936
55.0	65.471	70.210	70.749	70.210	65.471	67.109	71.673
57.5	52.318	55.727	57.050	55.727	52.318	54.033	57.715
60.0	43.687	45.570	46.578	45.570	43.687	45.157	46.760
62.5	37.681	36.974	37.569	36.974	37.681	37.296	37.338
65.0	31.325	30.457	30.086	30.457	31.325	31.024	29.519

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67.5	27.440	26.453	26.040	26.453	27.440	27.097	25.774
70.0	24.675	23.856	23.555	23.856	24.675	24.297	23.443
72.5	21.938	21.434	21.322	21.434	21.938	21.644	21.350
75.0	19.460	19.264	19.558	19.264	19.460	19.159	19.733
77.5	17.234	17.276	18.144	17.276	17.234	16.982	18.382
80.0	15.414	15.862	16.814	15.862	15.414	15.400	16.919
82.5	13.965	14.889	15.428	14.889	13.965	14.455	15.302
85.0	13.020	13.951	14.112	13.951	13.020	13.552	13.895
87.5	12.733	13.111	13.657	13.111	12.733	13.062	13.559
90.0	12.971	13.377	13.643	13.377	12.971	13.076	13.804
92.5	13.643	14.063	13.447	14.063	13.643	13.874	13.699
95.0	14.504	13.720	12.922	13.720	14.504	14.182	13.160
97.5	14.826	13.496	12.929	13.496	14.826	13.937	12.908
100.0	14.714	13.909	13.531	13.909	14.714	14.287	13.461
102.5	14.679	14.420	14.063	14.420	14.679	14.553	13.958
105.0	14.938	14.665	14.385	14.665	14.938	14.763	14.385
107.5	15.008	14.868	14.616	14.868	15.008	14.924	14.644
110.0	14.959	14.931	14.868	14.931	14.959	15.022	14.805
112.5	15.050	14.980	14.924	14.980	15.050	15.099	14.903
115.0	15.393	15.183	15.148	15.183	15.393	15.407	15.211
117.5	15.743	15.582	15.568	15.582	15.743	15.862	15.645
120.0	16.128	15.967	15.932	15.967	16.128	16.345	16.065
122.5	16.492	16.261	16.212	16.261	16.492	16.702	16.331
125.0	16.758	16.443	16.317	16.443	16.758	16.891	16.443
127.5	17.073	16.611	16.401	16.611	17.073	17.003	16.520
130.0	17.535	16.870	16.569	16.870	17.535	17.234	16.632
132.5	17.899	17.164	16.772	17.164	17.899	17.507	16.751
135.0	18.151	17.465	17.073	17.465	18.151	17.703	16.912
137.5	18.326	17.815	17.458	17.815	18.326	17.955	17.185
140.0	18.501	18.172	17.913	18.172	18.501	18.200	17.584
142.5	18.634	18.620	18.550	18.620	18.634	18.445	18.221
145.0	18.935	19.320	19.397	19.320	18.935	18.879	19.166
147.5	19.551	20.160	20.356	20.160	19.551	19.621	20.062
150.0	21.021	21.560	21.784	21.560	21.021	20.993	21.336
152.5	23.023	23.387	23.471	23.387	23.023	22.953	23.156
155.0	24.941	24.829	24.612	24.829	24.941	24.661	24.325
157.5	26.033	25.704	25.466	25.704	26.033	25.599	24.829
160.0	26.068	25.914	25.977	25.914	26.068	25.746	25.431
162.5	25.557	25.452	25.914	25.452	25.557	25.452	25.837
165.0	25.032	25.039	25.571	25.039	25.032	25.060	25.767
167.5	24.766	24.899	25.305	24.899	24.766	24.913	25.557
170.0	24.521	24.689	24.927	24.689	24.521	24.703	25.067
172.5	24.423	24.584	24.703	24.584	24.423	24.675	24.696
175.0	26.194	26.173	25.984	26.173	26.194	26.222	25.893
177.5	29.827	29.526	29.085	29.526	29.827	29.547	28.784
180.0	30.870	30.870	30.870	30.870	30.870	30.870	30.870

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	214.46	N.A.	18.80
0-30	481.27	N.A.	42.30
0-40	742.63	N.A.	65.20
0-60	963.96	N.A.	84.60
0-80	1016.64	N.A.	89.30
0-90	1031.92	N.A.	90.60
10-90	981.99	N.A.	86.20
20-40	528.17	N.A.	46.40
20-50	684.22	N.A.	60.10
40-70	253.31	N.A.	22.20
60-80	52.68	N.A.	4.60
70-80	20.70	N.A.	1.80
80-90	15.28	N.A.	1.30
90-110	30.50	N.A.	2.70
90-120	45.76	N.A.	4.00
90-130	60.65	N.A.	5.30
90-150	86.36	N.A.	7.60
90-180	107.17	N.A.	9.40
110-180	76.67	N.A.	6.70
0-180	1139.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.93
10-20	164.53
20-30	266.81
30-40	261.35
40-50	156.06
50-60	65.28
60-70	31.98
70-80	20.70
80-90	15.28
90-100	15.04
100-110	15.46
110-120	15.26
120-130	14.89
130-140	13.61
140-150	12.09
150-160	11.17
160-170	7.18
170-180	2.46

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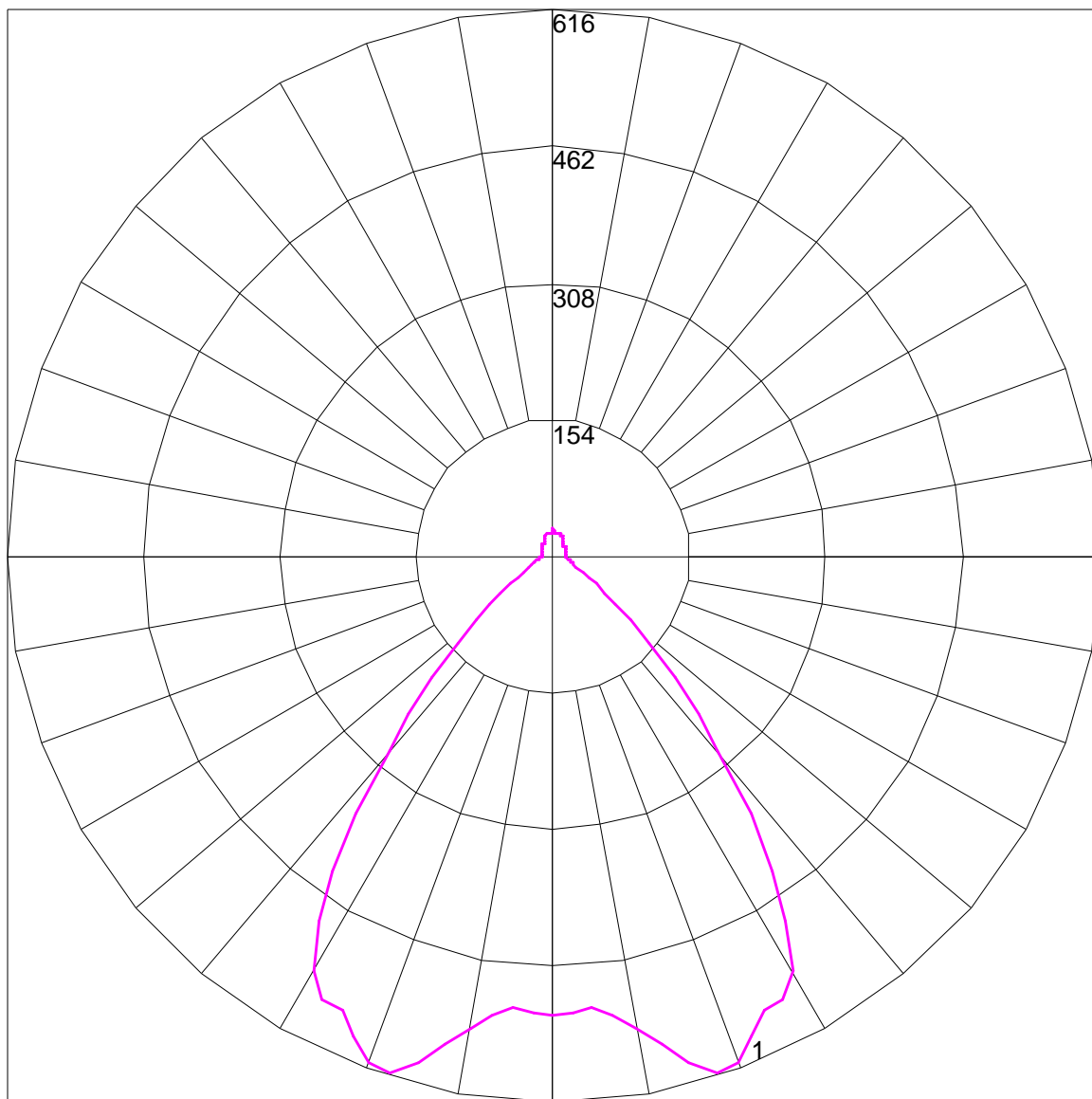
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

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PHOTOMETRIC FILENAME : PRSUR22LEDGV-15L35K-EX-PR22CNFR.IES

POLAR GRAPH



Maximum Candela = 615.664 Located At Horizontal Angle = 90, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (0 - 180)