

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRDDH22LEDGV-180L35KEXXXPR22XX.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[LUMCAT] PRDDH22LEDGV-180L-35K-Ex/xx/xx/PR22/xx

[LUMINAIRE] 22" Diam. High Bay - Prismatic Refractor Open aperture

[LAMP] N/A

[TEST] CRT1509031201-001-MOD to: PRDDH22LEDGV-180L-35KEx/xx/xx/PR22/xx

[TESTLAB] Intertek

[ISSUE DATE] 10/23/2015

[UPDATE] 06/01/2016

[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] Output Multiplier for Clear Polycarbonate (flat) Lens: x 0.90

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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	142
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.83 ft (Diameter)
Luminous Width (90-270)	1.83 ft (Diameter)
Luminous Height	1.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3399	4065	3579
55	1701	1598	1652
65	1010	911	1010
75	744	750	750
85	597	643	611

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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	11341.931	11341.931	11341.931	11341.931	11341.931	11341.931	11341.931	11341.931	11341.931	11341.931
2.5	11329.581	11325.681	11354.931	11322.513	11378.737	11322.513	11354.931	11325.681	11329.581	11325.681
5.0	11161.394	11328.606	11317.069	11218.350	11230.131	11218.350	11317.069	11328.606	11161.394	11328.606
7.5	10990.525	11328.119	11357.612	11032.856	10995.888	11032.856	11357.612	11328.119	10990.525	11328.119
10.0	10842.894	11456.006	11449.019	10858.006	10789.269	10858.006	11449.019	11456.006	10842.894	11456.006
12.5	10710.862	11681.962	11698.538	10795.525	10738.081	10795.525	11698.538	11681.962	10710.862	11681.962
15.0	10857.600	11695.369	11677.575	11040.656	10978.175	11040.656	11677.575	11695.369	10857.600	11695.369
17.5	10981.994	11556.106	11699.675	11139.456	10986.462	11139.456	11699.675	11556.106	10981.994	11556.106
20.0	10643.019	10967.694	11090.056	10720.044	10654.231	10720.044	11090.056	10967.694	10643.019	10967.694
22.5	9973.681	10086.294	10070.125	10009.188	9917.294	10009.188	10070.125	10086.294	9973.681	10086.294
25.0	9208.631	8929.375	8882.006	9280.538	9273.388	9280.538	8882.006	8929.375	9208.631	8929.375
27.5	8416.931	8194.712	8162.050	8546.200	8518.575	8546.200	8162.050	8194.712	8416.931	8194.712
30.0	7226.294	7118.231	7114.819	7250.750	7253.512	7250.750	7114.819	7118.231	7226.294	7118.231
32.5	5618.762	5846.587	5865.681	5645.656	5638.425	5645.656	5865.681	5846.587	5618.762	5846.587
35.0	4036.419	4544.962	4634.500	4087.688	4059.981	4087.688	4634.500	4544.962	4036.419	4544.962
37.5	3157.537	3377.075	3402.262	3165.988	3147.137	3165.988	3402.262	3377.075	3157.537	3377.075
40.0	2785.656	2272.887	2234.944	2729.188	2763.475	2729.188	2234.944	2272.887	2785.656	2272.887
42.5	2069.113	1699.506	1673.344	2004.681	2075.531	2004.681	1673.344	1699.506	2069.113	1699.506
45.0	1066.244	1261.406	1275.219	1088.181	1122.875	1088.181	1275.219	1261.406	1066.244	1261.406
47.5	751.156	733.038	735.800	728.000	739.700	728.000	735.800	733.038	751.156	733.038
50.0	660.237	622.944	597.837	634.888	644.719	634.888	597.837	622.944	660.237	622.944
52.5	576.631	546.894	532.106	558.188	563.956	558.188	532.106	546.894	576.631	546.894
55.0	516.100	493.512	484.819	500.581	501.069	500.581	484.819	493.512	516.100	493.512
57.5	448.988	451.262	445.250	444.275	444.844	444.275	445.250	451.262	448.988	451.262
60.0	398.450	397.719	394.794	391.625	390.163	391.625	394.794	397.719	398.450	397.719
62.5	346.694	323.538	325.894	336.294	341.250	336.294	325.894	323.538	346.694	323.538
65.0	286.731	262.844	258.538	282.669	286.650	282.669	258.538	262.844	286.731	262.844
67.5	252.200	234.569	230.181	250.575	255.125	250.575	230.181	234.569	252.200	234.569
70.0	237.819	217.750	217.425	233.756	236.600	233.756	217.425	217.750	237.819	217.750
72.5	212.469	204.994	204.019	214.012	214.906	214.012	204.019	204.994	212.469	204.994
75.0	190.206	188.581	191.750	192.400	191.750	192.400	191.750	188.581	190.206	188.581
77.5	170.463	176.475	179.481	172.819	169.731	172.819	179.481	176.475	170.463	176.475
80.0	154.700	168.431	171.031	156.406	155.675	156.406	171.031	168.431	154.700	168.431
82.5	142.106	159.006	156.081	143.406	142.919	143.406	156.081	159.006	142.106	159.006
85.0	131.056	142.431	141.213	135.444	134.306	135.444	141.213	142.431	131.056	142.431
87.5	124.800	127.237	128.375	127.888	127.806	127.888	128.375	127.237	124.800	127.237
90.0	115.700	117.406	122.200	118.625	115.700	118.625	122.200	117.406	115.700	117.406
92.5	105.056	112.775	112.531	112.125	111.069	112.125	112.531	112.775	105.056	112.775
95.0	105.950	99.206	99.044	110.825	116.431	110.825	99.044	99.206	105.950	99.206
97.5	105.950	96.769	94.737	110.013	117.569	110.013	94.737	96.769	105.950	96.769
100.0	100.181	94.006	95.306	106.600	107.737	106.600	95.306	94.006	100.181	94.006
102.5	103.431	96.119	99.531	106.763	101.237	106.763	99.531	96.119	103.431	96.119
105.0	97.094	96.444	97.744	100.994	99.775	100.994	97.744	96.444	97.094	96.444
107.5	95.550	98.394	97.338	97.013	97.744	97.013	97.338	98.394	95.550	98.394
110.0	95.631	96.688	95.794	94.656	96.444	94.656	95.794	96.688	95.631	96.688
112.5	93.519	93.275	89.944	91.975	91.162	91.975	89.944	93.275	93.519	93.275
115.0	88.319	89.131	86.775	89.213	90.513	89.213	86.775	89.131	88.319	89.131
117.5	85.719	88.319	91.081	86.775	91.000	86.775	91.081	88.319	85.719	88.319
120.0	91.162	91.244	91.894	92.463	95.063	92.463	91.894	91.244	91.162	91.244
122.5	97.013	94.737	96.931	95.713	97.094	95.713	96.931	94.737	97.013	94.737
125.0	102.375	98.638	98.963	101.969	100.750	101.969	98.963	98.638	102.375	98.638
127.5	104.000	102.131	102.781	108.956	108.225	108.956	102.781	102.131	104.000	102.131
130.0	109.606	108.956	109.850	114.319	115.375	114.319	109.850	108.956	109.606	108.956
132.5	121.631	114.969	114.806	121.306	123.744	121.306	114.806	114.969	121.631	114.969

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135.0	125.287	118.706	120.250	127.644	128.700	127.644	120.250	118.706	125.287	118.706
137.5	130.325	125.531	124.638	135.200	134.387	135.200	124.638	125.531	130.325	125.531
140.0	133.656	132.194	133.331	140.725	140.644	140.725	133.331	132.194	133.656	132.194
142.5	142.512	141.294	141.456	144.787	143.406	144.787	141.456	141.294	142.512	141.294
145.0	147.631	153.806	155.838	150.231	150.719	150.231	155.838	153.806	147.631	153.806
147.5	155.594	164.125	168.269	159.656	160.225	159.656	168.269	164.125	155.594	164.125
150.0	170.219	183.463	182.406	176.637	173.144	176.637	182.406	183.463	170.219	183.463
152.5	190.775	197.600	202.800	200.281	194.919	200.281	202.800	197.600	190.775	197.600
155.0	208.731	213.037	214.094	216.044	211.088	216.044	214.094	213.037	208.731	213.037
157.5	220.594	218.725	225.144	225.713	223.031	225.713	225.144	218.725	220.594	218.725
160.0	220.106	223.681	227.906	226.281	224.900	226.281	227.906	223.681	220.106	223.681
162.5	219.294	225.144	229.938	223.681	223.194	223.681	229.938	225.144	219.294	225.144
165.0	220.431	221.406	226.606	222.137	223.356	222.137	226.606	221.406	220.431	221.406
167.5	227.256	226.200	225.469	225.306	227.988	225.306	225.469	226.200	227.256	226.200
170.0	231.563	229.369	230.181	230.588	231.887	230.588	230.181	229.369	231.563	229.369
172.5	234.975	235.137	235.219	236.925	235.381	236.925	235.219	235.137	234.975	235.137
175.0	249.356	253.825	257.075	253.662	253.012	253.662	257.075	253.825	249.356	253.825
177.5	278.931	282.262	288.275	288.194	283.725	288.194	288.275	282.262	278.931	282.262
180.0	298.594	298.594	298.594	298.594	298.594	298.594	298.594	298.594	298.594	298.594

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	11341.931	11341.931	11341.931	11341.931	11341.931	11341.931	11341.931
2.5	11354.931	11322.513	11378.737	11322.513	11354.931	11325.681	11329.581
5.0	11317.069	11218.350	11230.131	11218.350	11317.069	11328.606	11161.394
7.5	11357.612	11032.856	10995.888	11032.856	11357.612	111328.119	10990.525
10.0	11449.019	10858.006	10789.269	10858.006	11449.019	11456.006	10842.894
12.5	11698.538	10795.525	10738.081	10795.525	11698.538	11681.962	10710.862
15.0	11677.575	11040.656	10978.175	11040.656	11677.575	11695.369	10857.600
17.5	11699.675	11139.456	10986.462	11139.456	11699.675	11556.106	10981.994
20.0	11090.056	10720.044	10654.231	10720.044	11090.056	10967.694	10643.019
22.5	10070.125	10009.188	9917.294	10009.188	10070.125	10086.294	9973.681
25.0	8882.006	9280.538	9273.388	9280.538	8882.006	8929.375	9208.631
27.5	8162.050	8546.200	8518.575	8546.200	8162.050	8194.712	8416.931
30.0	7114.819	7250.750	7253.512	7250.750	7114.819	7118.231	7226.294
32.5	5865.681	5645.656	5638.425	5645.656	5865.681	5846.587	5618.762
35.0	4634.500	4087.688	4059.981	4087.688	4634.500	4544.962	4036.419
37.5	3402.262	3165.988	3147.137	3165.988	3402.262	3377.075	3157.537
40.0	2234.944	2729.188	2763.475	2729.188	2234.944	2272.887	2785.656
42.5	1673.344	2004.681	2075.531	2004.681	1673.344	1699.506	2069.113
45.0	1275.219	1088.181	1122.875	1088.181	1275.219	1261.406	1066.244
47.5	735.800	728.000	739.700	728.000	735.800	733.038	751.156
50.0	597.837	634.888	644.719	634.888	597.837	622.944	660.237
52.5	532.106	558.188	563.956	558.188	532.106	546.894	576.631
55.0	484.819	500.581	501.069	500.581	484.819	493.512	516.100
57.5	445.250	444.275	444.844	444.275	445.250	451.262	448.988
60.0	394.794	391.625	390.163	391.625	394.794	397.719	398.450
62.5	325.894	336.294	341.250	336.294	325.894	323.538	346.694
65.0	258.538	282.669	286.650	282.669	258.538	262.844	286.731
67.5	230.181	250.575	255.125	250.575	230.181	234.569	252.200
70.0	217.425	233.756	236.600	233.756	217.425	217.750	237.819
72.5	204.019	214.012	214.906	214.012	204.019	204.994	212.469
75.0	191.750	192.400	191.750	192.400	191.750	188.581	190.206
77.5	179.481	172.819	169.731	172.819	179.481	176.475	170.463
80.0	171.031	156.406	155.675	156.406	171.031	168.431	154.700

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82.5	156.081	143.406	142.919	143.406	156.081	159.006	142.106
85.0	141.213	135.444	134.306	135.444	141.213	142.431	131.056
87.5	128.375	127.888	127.806	127.888	128.375	127.237	124.800
90.0	122.200	118.625	115.700	118.625	122.200	117.406	115.700
92.5	112.531	112.125	111.069	112.125	112.531	112.775	105.056
95.0	99.044	110.825	116.431	110.825	99.044	99.206	105.950
97.5	94.737	110.013	117.569	110.013	94.737	96.769	105.950
100.0	95.306	106.600	107.737	106.600	95.306	94.006	100.181
102.5	99.531	106.763	101.237	106.763	99.531	96.119	103.431
105.0	97.744	100.994	99.775	100.994	97.744	96.444	97.094
107.5	97.338	97.013	97.744	97.013	97.338	98.394	95.550
110.0	95.794	94.656	96.444	94.656	95.794	96.688	95.631
112.5	89.944	91.975	91.162	91.975	89.944	93.275	93.519
115.0	86.775	89.213	90.513	89.213	86.775	89.131	88.319
117.5	91.081	86.775	91.000	86.775	91.081	88.319	85.719
120.0	91.894	92.463	95.063	92.463	91.894	91.244	91.162
122.5	96.931	95.713	97.094	95.713	96.931	94.737	97.013
125.0	98.963	101.969	100.750	101.969	98.963	98.638	102.375
127.5	102.781	108.956	108.225	108.956	102.781	102.131	104.000
130.0	109.850	114.319	115.375	114.319	109.850	108.956	109.606
132.5	114.806	121.306	123.744	121.306	114.806	114.969	121.631
135.0	120.250	127.644	128.700	127.644	120.250	118.706	125.287
137.5	124.638	135.200	134.387	135.200	124.638	125.531	130.325
140.0	133.331	140.725	140.644	140.725	133.331	132.194	133.656
142.5	141.456	144.787	143.406	144.787	141.456	141.294	142.512
145.0	155.838	150.231	150.719	150.231	155.838	153.806	147.631
147.5	168.269	159.656	160.225	159.656	168.269	164.125	155.594
150.0	182.406	176.637	173.144	176.637	182.406	183.463	170.219
152.5	202.800	200.281	194.919	200.281	202.800	197.600	190.775
155.0	214.094	216.044	211.088	216.044	214.094	213.037	208.731
157.5	225.144	225.713	223.031	225.713	225.144	218.725	220.594
160.0	227.906	226.281	224.900	226.281	227.906	223.681	220.106
162.5	229.938	223.681	223.194	223.681	229.938	225.144	219.294
165.0	226.606	222.137	223.356	222.137	226.606	221.406	220.431
167.5	225.469	225.306	227.988	225.306	225.469	226.200	227.256
170.0	230.181	230.588	231.887	230.588	230.181	229.369	231.563
172.5	235.219	236.925	235.381	236.925	235.219	235.137	234.975
175.0	257.075	253.662	253.012	253.662	257.075	253.825	249.356
177.5	288.275	288.194	283.725	288.194	288.275	282.262	278.931
180.0	298.594	298.594	298.594	298.594	298.594	298.594	298.594

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4251.88	N.A.	30.20
0-30	8424.22	N.A.	59.70
0-40	11222.6	N.A.	79.60
0-60	12683.66	N.A.	89.90
0-80	13173.16	N.A.	93.40
0-90	13324.83	N.A.	94.50
10-90	12254.03	N.A.	86.90
20-40	6970.72	N.A.	49.40
20-50	7983.66	N.A.	56.60
40-70	1747.31	N.A.	12.40
60-80	489.50	N.A.	3.50
70-80	203.25	N.A.	1.40
80-90	151.67	N.A.	1.10
90-110	221.48	N.A.	1.60
90-120	311.62	N.A.	2.20
90-130	401.89	N.A.	2.80
90-150	593.47	N.A.	4.20
90-180	777.06	N.A.	5.50
110-180	555.58	N.A.	3.90
0-180	14101.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1070.8
10-20	3181.08
20-30	4172.34
30-40	2798.38
40-50	1012.95
50-60	448.12
60-70	286.24
70-80	203.25
80-90	151.67
90-100	117.03
100-110	104.44
110-120	90.14
120-130	90.27
130-140	95.57
140-150	96.01
150-160	96.13
160-170	63.86
170-180	23.60

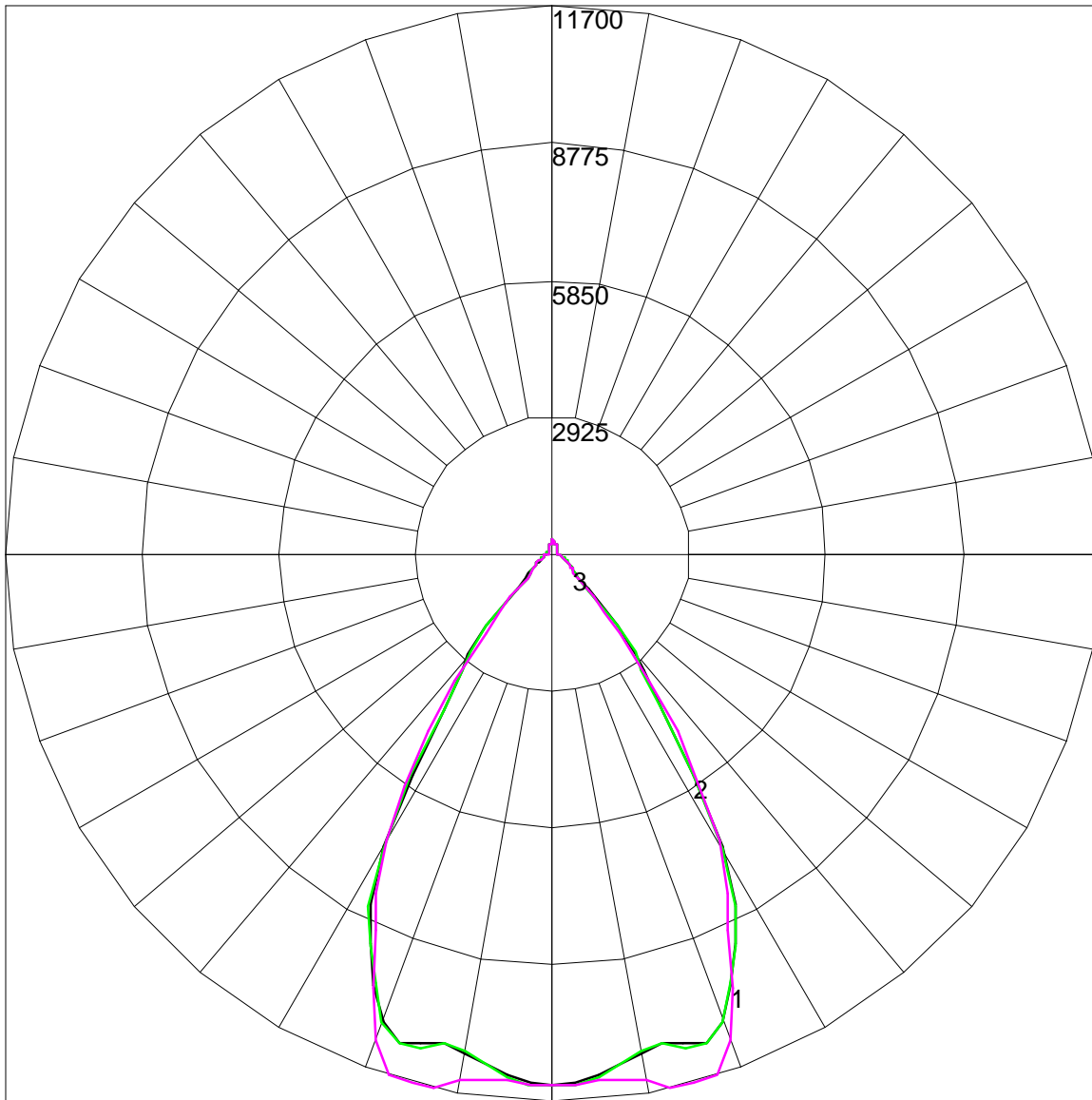
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	111	108	105	102	108	105	102	100	100	98	96	95	93	92	91	89	88	86
2	104	99	94	90	102	97	92	89	92	89	86	88	86	83	85	83	81	79
3	98	91	85	81	96	89	84	80	86	81	78	82	79	76	79	76	74	72
4	93	84	78	73	90	83	77	72	80	75	71	77	73	69	74	71	68	66
5	87	78	72	67	85	77	71	66	74	69	65	72	67	64	70	66	63	61
6	82	73	66	61	81	72	65	61	69	64	60	67	63	59	66	61	58	57
7	78	68	61	57	76	67	61	56	65	59	55	63	58	55	62	57	54	53
8	74	63	57	52	72	63	56	52	61	55	52	59	55	51	58	54	50	49
9	70	60	53	49	69	59	53	49	57	52	48	56	51	48	55	50	47	46
10	66	56	50	46	65	55	49	45	54	49	45	53	48	45	52	47	44	43

POLAR GRAPH



Maximum Candela = 11699.675 Located At Horizontal Angle = 45, Vertical Angle = 17.5

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