

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRDDH22LEDGV-180L35KEXXXPR22CNFRXX.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[LUMCAT] PRDDH22LEDGV-180L-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-180L-35KEx/xx/xx/PR22/CNFR/XX

[TESTLAB] Intertek

[ISSUE DATE] 10/27/2015

[UPDATE] 05/18/2016

[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	13222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	142
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	6875	6999	6899
55	2609	2383	2576
65	1147	1218	1169
75	850	839	843
85	696	652	706

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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	6016.156	6016.156	6016.156	6016.156	6016.156	6016.156	6016.156	6016.156	6016.156	6016.156
2.5	5977.969	5995.762	5998.769	6002.750	5982.600	6002.750	5998.769	5995.762	5977.969	5995.762
5.0	5923.450	5929.706	5927.594	5911.669	5902.406	5911.669	5927.594	5929.706	5923.450	5929.706
7.5	6061.738	6064.581	6056.131	6000.394	6029.481	6000.394	6056.131	6064.581	6061.738	6064.581
10.0	6274.206	6392.506	6474.325	6274.613	6215.056	6274.613	6474.325	6392.506	6274.206	6392.506
12.5	6533.637	6621.956	6652.506	6518.363	6464.656	6518.363	6652.506	6621.956	6533.637	6621.956
15.0	6867.819	6725.387	6707.594	6747.813	6854.900	6747.813	6707.594	6725.387	6867.819	6725.387
17.5	7097.837	6769.262	6680.212	6939.969	7129.119	6939.969	6680.212	6769.262	7097.837	6769.262
20.0	7057.700	6835.400	6653.887	6999.931	7146.100	6999.931	6653.887	6835.400	7057.700	6835.400
22.5	6798.106	6864.731	6836.700	6764.063	6861.319	6764.063	6836.700	6864.731	6798.106	6864.731
25.0	6551.675	6817.769	6968.569	6637.800	6543.794	6637.800	6968.569	6817.769	6551.675	6817.769
27.5	6547.450	6781.044	6773.975	6577.431	6493.825	6577.431	6773.975	6781.044	6547.450	6781.044
30.0	6269.006	6354.969	6275.750	6282.331	6178.900	6282.331	6275.750	6354.969	6269.006	6354.969
32.5	5672.631	5642.488	5505.419	5615.594	5557.500	5615.594	5505.419	5642.488	5672.631	5642.488
35.0	5029.781	4810.163	4721.438	4845.425	4980.056	4845.425	4721.438	4810.163	5029.781	4810.163
37.5	4255.469	4181.613	4132.944	4172.431	4202.981	4172.431	4132.944	4181.613	4255.469	4181.613
40.0	3343.438	3625.050	3691.431	3483.106	3397.794	3483.106	3691.431	3625.050	3343.438	3625.050
42.5	2809.869	3008.931	3081.569	2879.581	2852.769	2879.581	3081.569	3008.931	2809.869	3008.931
45.0	2264.356	2349.100	2305.225	2303.844	2272.400	2303.844	2305.225	2349.100	2264.356	2349.100
47.5	1683.338	1824.388	1809.519	1742.081	1716.081	1742.081	1809.519	1824.388	1683.338	1824.388
50.0	1310.806	1385.394	1399.044	1354.600	1318.037	1354.600	1399.044	1385.394	1310.806	1385.394
52.5	1043.900	1024.725	1022.288	1047.881	1032.688	1047.881	1022.288	1024.725	1043.900	1024.725
55.0	831.919	778.944	759.931	814.938	821.194	814.938	759.931	778.944	831.919	778.944
57.5	669.906	627.169	607.263	646.831	662.188	646.831	607.263	627.169	669.906	627.169
60.0	542.750	524.144	507.081	528.938	540.638	528.938	507.081	524.144	542.750	524.144
62.5	433.387	432.900	437.369	429.163	436.069	429.163	437.369	432.900	433.387	432.900
65.0	342.631	360.100	363.594	353.519	349.212	353.519	363.594	360.100	342.631	360.100
67.5	299.163	314.519	318.500	307.044	302.250	307.044	318.500	314.519	299.163	314.519
70.0	272.106	282.019	286.406	276.900	273.406	276.900	286.406	282.019	272.106	282.019
72.5	247.813	251.225	254.637	248.787	247.488	248.787	254.637	251.225	247.813	251.225
75.0	229.044	222.381	225.875	223.600	227.012	223.600	225.875	222.381	229.044	222.381
77.5	213.363	197.113	200.037	200.525	210.600	200.525	200.037	197.113	213.363	197.113
80.0	196.381	178.750	178.912	184.113	195.162	184.113	178.912	178.750	196.381	178.750
82.5	177.613	167.781	162.094	172.819	179.075	172.819	162.094	167.781	177.613	167.781
85.0	161.281	157.300	151.125	161.931	163.800	161.931	151.125	157.300	161.281	157.300
87.5	157.381	151.613	147.794	152.181	158.519	152.181	147.794	151.613	157.381	151.613
90.0	160.225	151.775	150.556	155.269	158.356	155.269	150.556	151.775	160.225	151.775
92.5	159.006	161.037	158.356	163.231	156.081	163.231	158.356	161.037	159.006	161.037
95.0	152.750	164.613	168.350	159.250	149.988	159.250	168.350	164.613	152.750	164.613
97.5	149.825	161.769	172.088	156.650	150.069	156.650	172.088	161.769	149.825	161.769
100.0	156.244	165.831	170.787	161.444	157.056	161.444	170.787	165.831	156.244	165.831
102.5	162.012	168.919	170.381	167.375	163.231	167.375	170.381	168.919	162.012	168.919
105.0	166.969	171.356	173.387	170.219	166.969	170.219	173.387	171.356	166.969	171.356
107.5	169.975	173.225	174.200	172.575	169.650	172.575	174.200	173.225	169.975	173.225
110.0	171.844	174.363	173.631	173.306	172.575	173.306	174.363	171.844	174.363	173.631
112.5	172.981	175.256	174.688	173.875	173.225	173.875	174.688	175.256	172.981	175.256
115.0	176.556	178.831	178.669	176.231	175.825	176.231	178.669	178.831	176.556	178.831
117.5	181.594	184.113	182.731	180.863	180.700	180.863	182.731	184.113	181.594	184.113
120.0	186.469	189.719	187.200	185.331	184.925	185.331	187.200	189.719	186.469	189.719
122.5	189.556	193.863	191.425	188.744	188.175	188.744	191.425	193.863	189.556	193.863
125.0	190.856	196.056	194.512	190.856	189.394	190.856	194.512	196.056	190.856	196.056
127.5	191.750	197.356	198.169	192.806	190.369	192.806	198.169	197.356	191.750	197.356
130.0	193.050	200.037	203.531	195.813	192.319	195.813	203.531	200.037	193.050	200.037
132.5	194.431	203.206	207.756	199.225	194.675	199.225	207.756	203.206	194.431	203.206

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CANDELA TABULATION - (Cont.)

135.0	196.300	205.481	210.681	202.719	198.169	202.719	210.681	205.481	196.300	205.481
137.5	199.469	208.406	212.713	206.781	202.637	206.781	212.713	208.406	199.469	208.406
140.0	204.100	211.250	214.744	210.925	207.919	210.925	214.744	211.250	204.100	211.250
142.5	211.494	214.094	216.287	216.125	215.313	216.125	216.287	214.094	211.494	214.094
145.0	222.463	219.131	219.781	224.250	225.144	224.250	219.781	219.131	222.463	219.131
147.5	232.863	227.744	226.931	234.000	236.275	234.000	226.931	227.744	232.863	227.744
150.0	247.650	243.669	243.994	250.250	252.850	250.250	243.994	243.669	247.650	243.669
152.5	268.775	266.419	267.231	271.456	272.431	271.456	267.231	266.419	268.775	266.419
155.0	282.344	286.244	289.494	288.194	285.675	288.194	289.494	286.244	282.344	286.244
157.5	288.194	297.131	302.169	298.350	295.587	298.350	302.169	297.131	288.194	297.131
160.0	295.181	298.837	302.575	300.788	301.519	300.788	302.575	298.837	295.181	298.837
162.5	299.894	295.425	296.644	295.425	300.788	295.425	296.644	295.425	299.894	295.425
165.0	299.081	290.875	290.550	290.631	296.806	290.631	290.550	290.875	299.081	290.875
167.5	296.644	289.169	287.462	289.006	293.719	289.006	287.462	289.169	296.644	289.169
170.0	290.956	286.731	284.619	286.569	289.331	286.569	284.619	286.731	290.956	286.731
172.5	286.650	286.406	283.481	285.350	286.731	285.350	283.481	286.406	286.650	286.406
175.0	300.544	304.363	304.038	303.794	301.600	303.794	304.038	304.363	300.544	304.363
177.5	334.100	342.956	346.206	342.712	337.594	342.712	346.206	342.956	334.100	342.956
180.0	358.313	358.313	358.313	358.313	358.313	358.313	358.313	358.313	358.313	358.313

**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	6016.156	6016.156	6016.156	6016.156	6016.156	6016.156	6016.156
2.5	5998.769	6002.750	5982.600	6002.750	5998.769	5995.762	5977.969
5.0	5927.594	5911.669	5902.406	5911.669	5927.594	5929.706	5923.450
7.5	6056.131	6000.394	6029.481	6000.394	6056.131	6064.581	6061.738
10.0	6474.325	6274.613	6215.056	6274.613	6474.325	6392.506	6274.206
12.5	6652.506	6518.363	6464.656	6518.363	6652.506	6621.956	6533.637
15.0	6707.594	6747.813	6854.900	6747.813	6707.594	6725.387	6867.819
17.5	6680.212	6939.969	7129.119	6939.969	6680.212	6769.262	7097.837
20.0	6653.887	6999.931	7146.100	6999.931	6653.887	6835.400	7057.700
22.5	6836.700	6764.063	6861.319	6764.063	6836.700	6864.731	6798.106
25.0	6968.569	6637.800	6543.794	6637.800	6968.569	6817.769	6551.675
27.5	6773.975	6577.431	6493.825	6577.431	6773.975	6781.044	6547.450
30.0	6275.750	6282.331	6178.900	6282.331	6275.750	6354.969	6269.006
32.5	5505.419	5615.594	5557.500	5615.594	5505.419	5642.488	5672.631
35.0	4721.438	4845.425	4980.056	4845.425	4721.438	4810.163	5029.781
37.5	4132.944	4172.431	4202.981	4172.431	4132.944	4181.613	4255.469
40.0	3691.431	3483.106	3397.794	3483.106	3691.431	3625.050	3343.438
42.5	3081.569	2879.581	2852.769	2879.581	3081.569	3008.931	2809.869
45.0	2305.225	2303.844	2272.400	2303.844	2305.225	2349.100	2264.356
47.5	1809.519	1742.081	1716.081	1742.081	1809.519	1824.388	1683.338
50.0	1399.044	1354.600	1318.037	1354.600	1399.044	1385.394	1310.806
52.5	1022.288	1047.881	1032.688	1047.881	1022.288	1024.725	1043.900
55.0	759.931	814.938	821.194	814.938	759.931	778.944	831.919
57.5	607.263	646.831	662.188	646.831	607.263	627.169	669.906
60.0	507.081	528.938	540.638	528.938	507.081	524.144	542.750
62.5	437.369	429.163	436.069	429.163	437.369	432.900	433.387
65.0	363.594	353.519	349.212	353.519	363.594	360.100	342.631
67.5	318.500	307.044	302.250	307.044	318.500	314.519	299.163
70.0	286.406	276.900	273.406	276.900	286.406	282.019	272.106
72.5	254.637	248.787	247.488	248.787	254.637	251.225	247.813
75.0	225.875	223.600	227.012	223.600	225.875	222.381	229.044
77.5	200.037	200.525	210.600	200.525	200.037	197.113	213.363
80.0	178.912	184.113	195.162	184.113	178.912	178.750	196.381

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CANDELA TABULATION - (Cont.)

82.5	162.094	172.819	179.075	172.819	162.094	167.781	177.613
85.0	151.125	161.931	163.800	161.931	151.125	157.300	161.281
87.5	147.794	152.181	158.519	152.181	147.794	151.613	157.381
90.0	150.556	155.269	158.356	155.269	150.556	151.775	160.225
92.5	158.356	163.231	156.081	163.231	158.356	161.037	159.006
95.0	168.350	159.250	149.988	159.250	168.350	164.613	152.750
97.5	172.088	156.650	150.069	156.650	172.088	161.769	149.825
100.0	170.787	161.444	157.056	161.444	170.787	165.831	156.244
102.5	170.381	167.375	163.231	167.375	170.381	168.919	162.012
105.0	173.387	170.219	166.969	170.219	173.387	171.356	166.969
107.5	174.200	172.575	169.650	172.575	174.200	173.225	169.975
110.0	173.631	173.306	172.575	173.306	173.631	174.363	171.844
112.5	174.688	173.875	173.225	173.875	174.688	175.256	172.981
115.0	178.669	176.231	175.825	176.231	178.669	178.831	176.556
117.5	182.731	180.863	180.700	180.863	182.731	184.113	181.594
120.0	187.200	185.331	184.925	185.331	187.200	189.719	186.469
122.5	191.425	188.744	188.175	188.744	191.425	193.863	189.556
125.0	194.512	190.856	189.394	190.856	194.512	196.056	190.856
127.5	198.169	192.806	190.369	192.806	198.169	197.356	191.750
130.0	203.531	195.813	192.319	195.813	203.531	200.037	193.050
132.5	207.756	199.225	194.675	199.225	207.756	203.206	194.431
135.0	210.681	202.719	198.169	202.719	210.681	205.481	196.300
137.5	212.713	206.781	202.637	206.781	212.713	208.406	199.469
140.0	214.744	210.925	207.919	210.925	214.744	211.250	204.100
142.5	216.287	216.125	215.313	216.125	216.287	214.094	211.494
145.0	219.781	224.250	225.144	224.250	219.781	219.131	222.463
147.5	226.931	234.000	236.275	234.000	226.931	227.744	232.863
150.0	243.994	250.250	252.850	250.250	243.994	243.669	247.650
152.5	267.231	271.456	272.431	271.456	267.231	266.419	268.775
155.0	289.494	288.194	285.675	288.194	289.494	286.244	282.344
157.5	302.169	298.350	295.587	298.350	302.169	297.131	288.194
160.0	302.575	300.788	301.519	300.788	302.575	298.837	295.181
162.5	296.644	295.425	300.788	295.425	296.644	295.425	299.894
165.0	290.550	290.631	296.806	290.631	290.550	290.875	299.081
167.5	287.462	289.006	293.719	289.006	287.462	289.169	296.644
170.0	284.619	286.569	289.331	286.569	284.619	286.731	290.956
172.5	283.481	285.350	286.731	285.350	283.481	286.406	286.650
175.0	304.038	303.794	301.600	303.794	304.038	304.363	300.544
177.5	346.206	342.712	337.594	342.712	346.206	342.956	334.100
180.0	358.313	358.313	358.313	358.313	358.313	358.313	358.313

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2489.26	N.A.	18.80
0-30	5586.19	N.A.	42.30
0-40	8619.77	N.A.	65.20
0-60	11188.84	N.A.	84.60
0-80	11800.29	N.A.	89.30
0-90	11977.59	N.A.	90.60
10-90	11398.06	N.A.	86.20
20-40	6130.5	N.A.	46.40
20-50	7941.89	N.A.	60.10
40-70	2940.24	N.A.	22.20
60-80	611.44	N.A.	4.60
70-80	240.28	N.A.	1.80
80-90	177.30	N.A.	1.30
90-110	354.05	N.A.	2.70
90-120	531.17	N.A.	4.00
90-130	704.00	N.A.	5.30
90-150	1002.37	N.A.	7.60
90-180	1243.97	N.A.	9.40
110-180	889.92	N.A.	6.70
0-180	13221.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	579.53
10-20	1909.73
20-30	3096.92
30-40	3033.58
40-50	1811.39
50-60	757.69
60-70	371.16
70-80	240.28
80-90	177.30
90-100	174.56
100-110	179.49
110-120	177.12
120-130	172.83
130-140	158.02
140-150	140.36
150-160	129.66
160-170	83.34
170-180	28.60

IES INDOOR REPORT

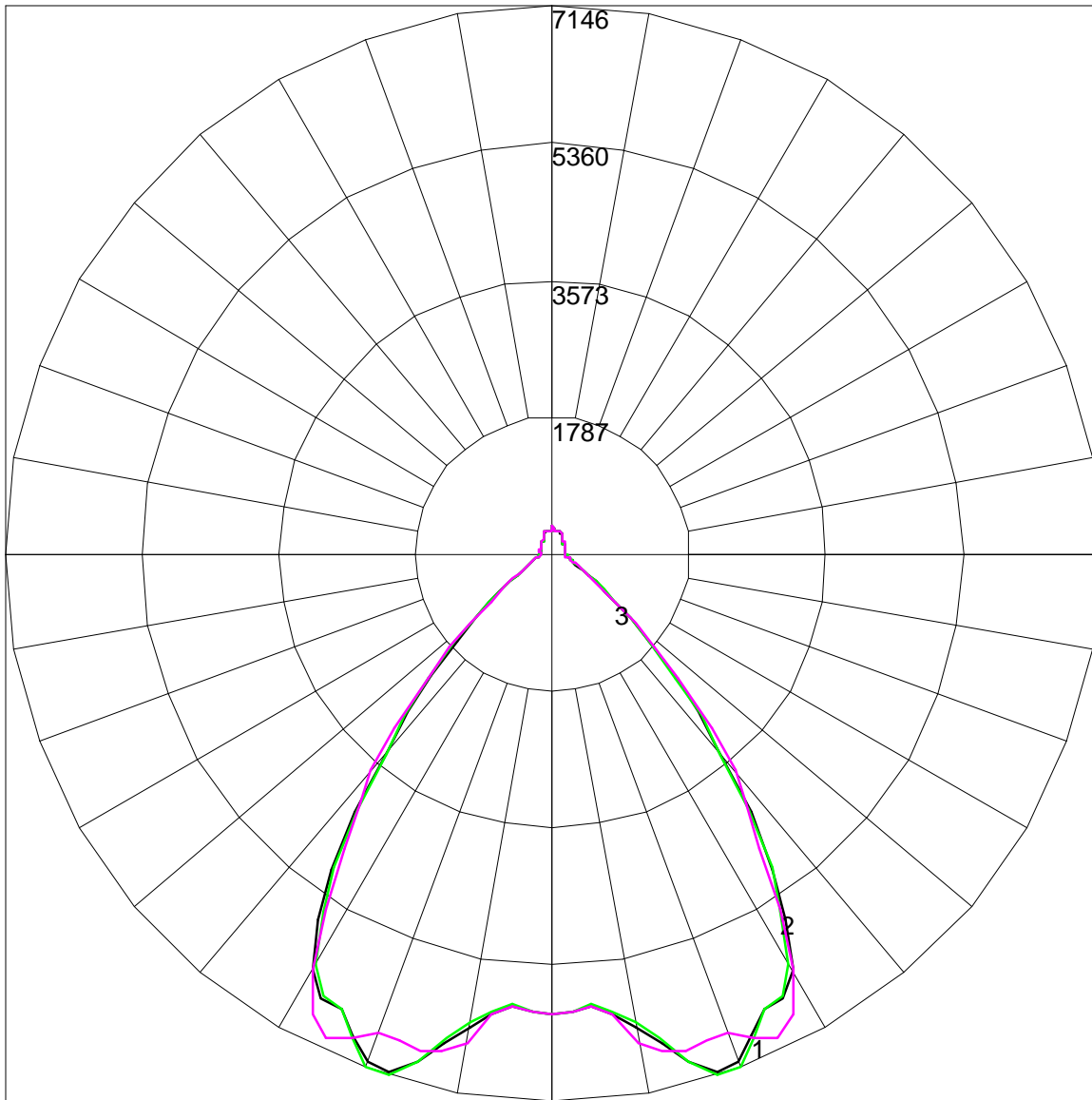
PHOTOMETRIC FILENAME : PRDDH22LEDGV-180L35KEXXXPR22CNFRXX.IES

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 = 7146.1 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)