

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00708 ~ PRDDH16INC4X-CD120-DF16_MW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00708

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 8/11/2017

[UPDATE] 9/11/2018

[LUMCAT] PRDDH16INC4X-CD120-DF16-MW

[LUMINAIRE] Nom. 16" diam. diffuse Prismatic DDH Mini-Bay Incand.

[OTHER] (4) Medium Base Sockets per luminaire

[OTHER] Open Aperture

[LAMPCAT] (4) TCP LED retrofit Lamp Model LED18A21000

[LAMP] Nom. 18 Watt, 1625 lumens per lamp, per TCP

[OTHER] 3000K CCT, per TCP

[OTHER] Total luminaire watts is approximate

[OTHER] This report prepared by Spectrum Lighting

[_CRI] 80

[_CCTMULT] 1.0 for 30K

[_LAMPMULT] 1.0 for 18W

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6043
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	72
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.68
Spacing Criterion (90-270)	1.68
Spacing Criterion (Diagonal)	1.72
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.92 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00708 ~ PRDDH16INC4X-CD120-DF16_MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5694	5694	5694
55	4932	4932	4932
65	3624	3624	3624
75	3216	3216	3216
85	3348	3348	3348

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CANDELA TABULATION

	<u>0</u>	<u>180</u>
0.0	925.176	925.176
2.5	925.214	925.214
5.0	928.648	928.648
7.5	932.138	932.138
10.0	937.485	937.485
12.5	942.974	942.974
15.0	951.199	951.199
17.5	959.868	959.868
20.0	974.268	974.268
22.5	988.951	988.951
25.0	1006.523	1006.523
27.5	1023.443	1023.443
30.0	1035.077	1035.077
32.5	1045.204	1045.204
35.0	1045.463	1045.463
37.5	1043.427	1043.427
40.0	1028.354	1028.354
42.5	1010.380	1010.380
45.0	978.285	978.285
47.5	945.122	945.122
50.0	907.442	907.442
52.5	868.550	868.550
55.0	825.109	825.109
57.5	775.232	775.232
60.0	703.934	703.934
62.5	634.699	634.699
65.0	571.596	571.596
67.5	519.147	519.147
70.0	495.655	495.655
72.5	474.930	474.930
75.0	460.931	460.931
77.5	447.411	447.411
80.0	434.948	434.948
82.5	424.258	424.258
85.0	417.171	417.171
87.5	410.952	410.952
90.0	406.328	406.328
92.5	402.020	402.020
95.0	398.245	398.245
97.5	394.933	394.933
100.0	392.346	392.346
102.5	388.396	388.396
105.0	382.507	382.507
107.5	376.957	376.957
110.0	371.858	371.858
112.5	365.842	365.842
115.0	358.709	358.709
117.5	349.843	349.843
120.0	339.050	339.050
122.5	318.570	318.570
125.0	288.029	288.029

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127.5	246.685	246.685
130.0	195.015	195.015
132.5	143.361	143.361
135.0	91.723	91.723
137.5	58.396	58.396
140.0	39.985	39.985
142.5	28.978	28.978
145.0	23.514	23.514
147.5	19.457	19.457
150.0	16.368	16.368
152.5	14.597	14.597
155.0	13.667	13.667
157.5	13.067	13.067
160.0	12.623	12.623
162.5	12.335	12.335
165.0	12.179	12.179
167.5	12.318	12.318
170.0	12.226	12.226
172.5	12.646	12.646
175.0	12.484	12.484
177.5	11.575	11.575
180.0	10.677	10.677

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	359.41	N.A.	5.90
0-30	825.87	N.A.	13.70
0-40	1480.05	N.A.	24.50
0-60	2966.92	N.A.	49.10
0-80	4031.23	N.A.	66.70
0-90	4487.54	N.A.	74.30
10-90	4398.64	N.A.	72.80
20-40	1120.64	N.A.	18.50
20-50	1874.73	N.A.	31.00
40-70	2062.51	N.A.	34.10
60-80	1064.32	N.A.	17.60
70-80	488.68	N.A.	8.10
80-90	456.31	N.A.	7.60
90-110	839.68	N.A.	13.90
90-120	1194.71	N.A.	19.80
90-130	1447.22	N.A.	23.90
90-150	1544.48	N.A.	25.60
90-180	1555.65	N.A.	25.70
110-180	715.98	N.A.	11.80
0-180	6043.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.90
10-20	270.51
20-30	466.46
30-40	654.17
40-50	754.09
50-60	732.77
60-70	575.64
70-80	488.68
80-90	456.31
90-100	434.95
100-110	404.72
110-120	355.03
120-130	252.51
130-140	81.27
140-150	15.99
150-160	6.51
160-170	3.49
170-180	1.18

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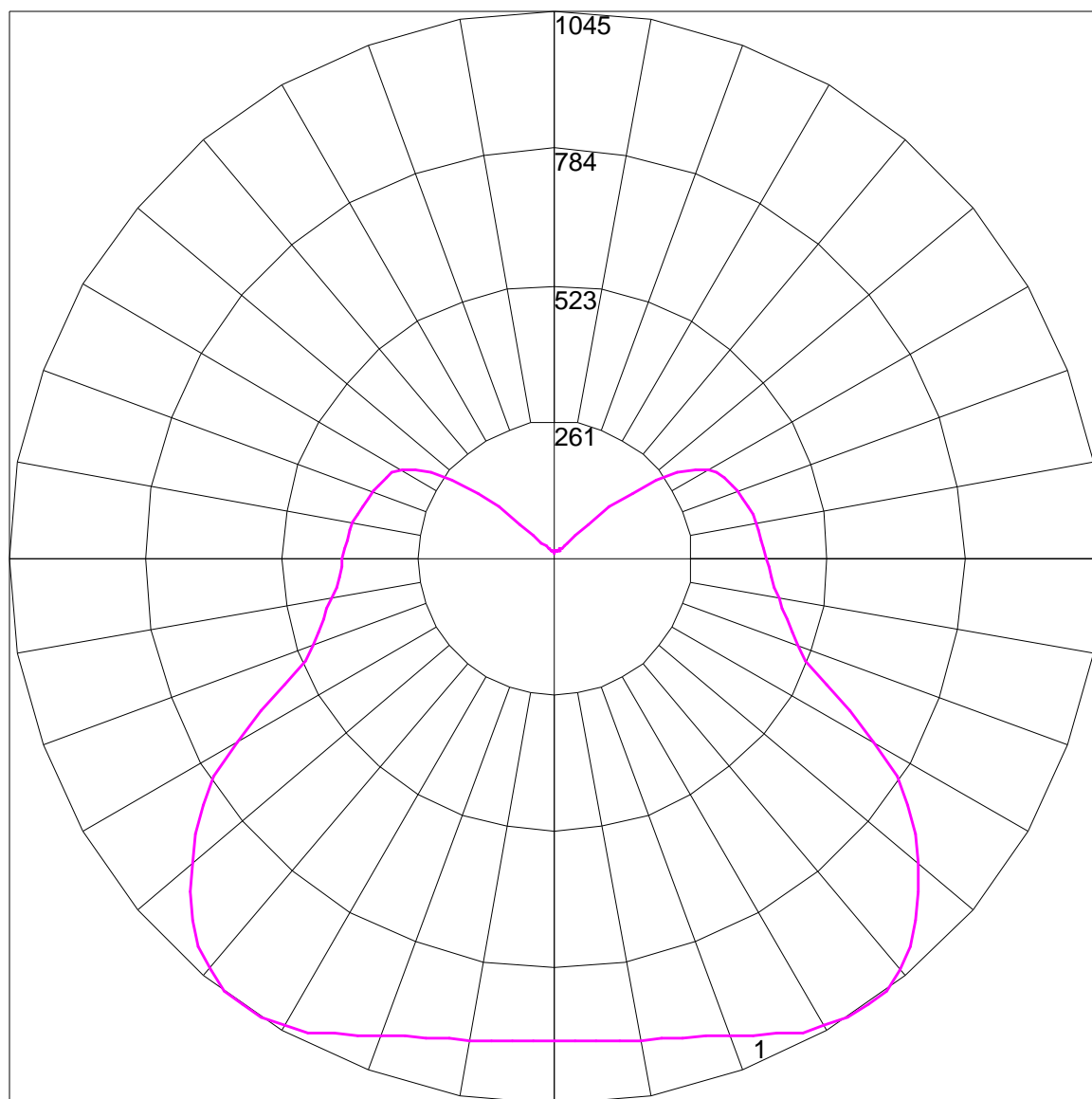
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	100	94	89	84	94	89	84	80	80	76	73	72	69	66	64	62	60	56
2	90	80	73	66	85	76	69	63	69	63	58	61	57	53	55	51	48	44
3	81	70	61	54	76	66	58	52	59	53	47	53	48	43	48	43	40	36
4	74	61	52	45	70	58	50	43	52	45	40	47	41	36	42	37	33	30
5	68	54	45	38	64	51	43	36	46	39	34	42	36	31	37	32	28	25
6	62	48	39	32	58	46	37	31	42	34	29	37	31	27	34	28	24	22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	20	28	23	19	17
9	49	36	27	22	47	34	26	21	31	24	20	28	22	18	25	20	17	15
10	46	33	25	19	44	31	24	19	29	22	18	26	20	16	24	19	15	13

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POLAR GRAPH



Maximum Candela = 1045.463 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180)