

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00708_1 ~ PRDDH16INC4X-CD120-DF16-CN-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00708_1

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/11/2017

[UPDATE] 9/11/2018

[LUMCAT] PRDDH16INC4X-CD120-DF16-CN-MW

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

[OTHER] (4) Medium Base Sockets per luminaire

[OTHER] Conical Lens (CN), mechanically fastened to diffuser (DF16)

[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	5581
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	72
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.58
Spacing Criterion (90-270)	1.58
Spacing Criterion (Diagonal)	1.68
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4163	4163	4163
55	3818	3818	3818
65	3499	3499	3499
75	3401	3401	3401
85	3516	3516	3516

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	0	180
0.0	734.592	734.592
2.5	734.599	734.599
5.0	736.555	736.555
7.5	735.667	735.667
10.0	734.751	734.751
12.5	730.770	730.770
15.0	726.844	726.844
17.5	726.635	726.635
20.0	726.510	726.510
22.5	730.582	730.582
25.0	734.784	734.784
27.5	744.925	744.925
30.0	754.960	754.960
32.5	761.406	761.406
35.0	767.398	767.398
37.5	759.789	759.789
40.0	751.795	751.795
42.5	733.490	733.490
45.0	715.173	715.173
47.5	696.565	696.565
50.0	677.918	677.918
52.5	658.453	658.453
55.0	638.732	638.732
57.5	614.165	614.165
60.0	589.910	589.910
62.5	570.772	570.772
65.0	551.859	551.859
67.5	536.520	536.520
70.0	521.087	521.087
72.5	504.266	504.266
75.0	487.549	487.549
77.5	472.226	472.226
80.0	457.312	457.312
82.5	447.553	447.553
85.0	438.143	438.143
87.5	432.799	432.799
90.0	427.814	427.814
92.5	426.709	426.709
95.0	425.932	425.932
97.5	428.546	428.546
100.0	431.091	431.091
102.5	432.959	432.959
105.0	434.405	434.405
107.5	432.004	432.004
110.0	429.539	429.539
112.5	426.508	426.508
115.0	422.875	422.875
117.5	414.253	414.253
120.0	403.915	403.915
122.5	379.869	379.869
125.0	353.129	353.129

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127.5	305.624	305.624
130.0	257.127	257.127
132.5	201.497	201.497
135.0	148.393	148.393
137.5	112.864	112.864
140.0	79.843	79.843
142.5	63.727	63.727
145.0	48.046	48.046
147.5	35.129	35.129
150.0	23.186	23.186
152.5	17.116	17.116
155.0	11.893	11.893
157.5	10.317	10.317
160.0	9.115	9.115
162.5	8.579	8.579
165.0	9.700	9.700
167.5	10.919	10.919
170.0	10.083	10.083
172.5	9.774	9.774
175.0	9.159	9.159
177.5	9.547	9.547
180.0	9.801	9.801

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Zone	Lumens	%Lamp	%Fixt
0-20	276.66	N.A.	5.00
0-30	618.53	N.A.	11.10
0-40	1096.23	N.A.	19.60
0-60	2219.32	N.A.	39.80
0-80	3284.8	N.A.	58.90
0-90	3765.12	N.A.	67.50
10-90	3694.91	N.A.	66.20
20-40	819.57	N.A.	14.70
20-50	1372.54	N.A.	24.60
40-70	1672.23	N.A.	30.00
60-80	1065.48	N.A.	19.10
70-80	516.34	N.A.	9.30
80-90	480.32	N.A.	8.60
90-110	924.07	N.A.	16.60
90-120	1341.22	N.A.	24.00
90-130	1649.57	N.A.	29.60
90-150	1805.51	N.A.	32.40
90-180	1815.76	N.A.	32.50
110-180	891.69	N.A.	16.00
0-180	5580.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	70.21
10-20	206.45
20-30	341.87
30-40	477.70
40-50	552.96
50-60	570.12
60-70	549.14
70-80	516.34
80-90	480.32
90-100	466.60
100-110	457.47
110-120	417.15
120-130	308.35
130-140	124.08
140-150	31.86
150-160	6.61
160-170	2.71
170-180	0.92

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

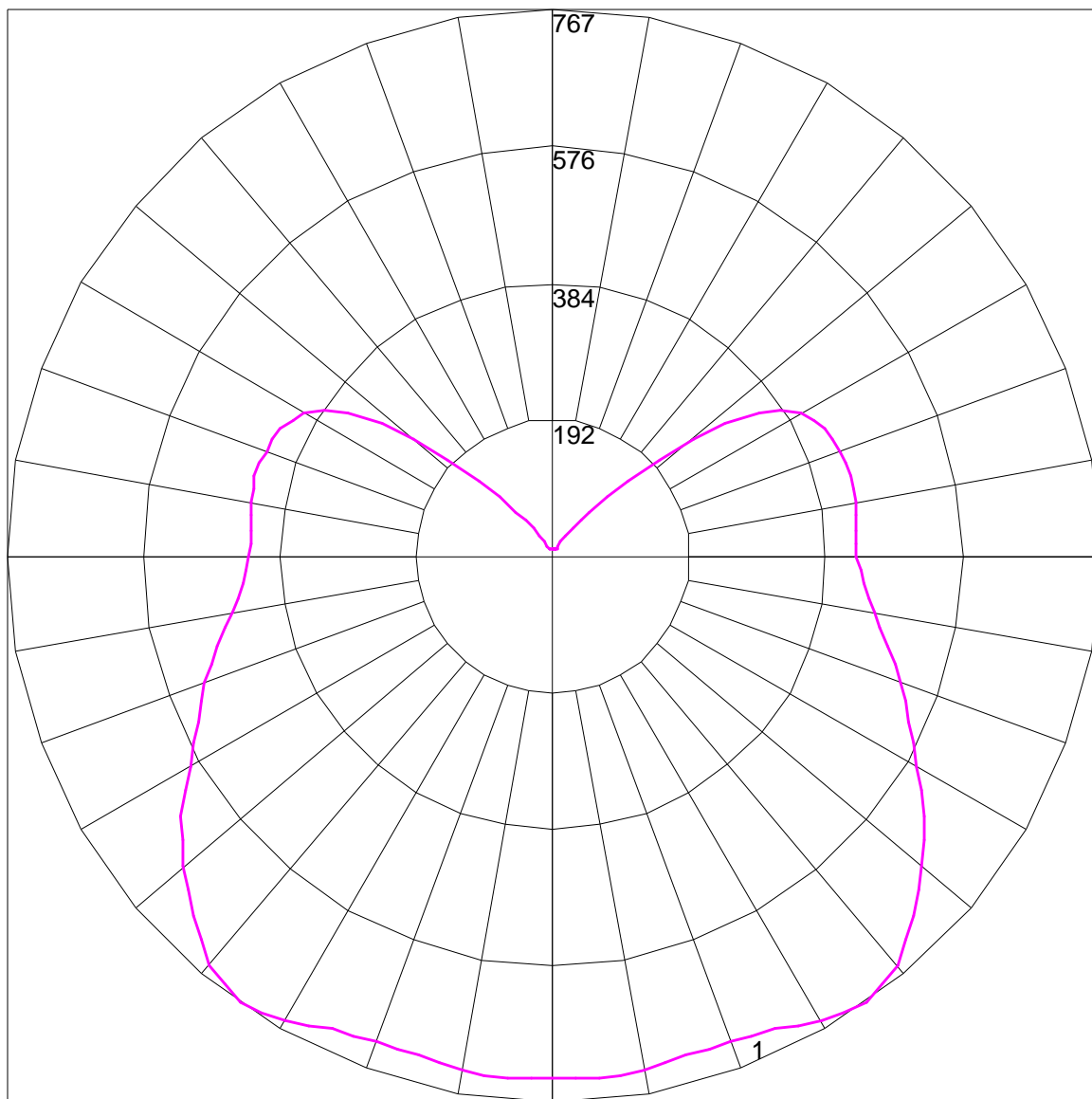
Effective Floor Cavity Reflectance 0.20

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	98	91	86	81	91	86	81	77	76	72	68	66	63	60	57	55	53	48
2	87	78	70	63	82	73	66	60	64	58	53	56	51	47	48	45	42	38
3	79	67	58	51	73	63	55	48	55	49	43	48	43	38	42	37	34	30
4	72	59	49	42	67	55	47	40	48	41	36	42	37	32	36	32	28	25
5	65	52	42	35	61	49	40	34	43	36	30	37	32	27	32	28	24	21
6	60	46	37	30	56	43	35	29	38	31	26	34	28	23	29	24	21	18
7	55	41	32	26	52	39	31	25	35	28	23	30	25	20	26	22	18	15
8	51	38	29	23	48	35	27	22	31	25	20	28	22	18	24	19	16	13
9	48	34	26	20	45	32	25	19	29	22	18	25	20	16	22	17	14	12
10	45	31	23	18	42	30	22	17	26	20	16	23	18	14	21	16	13	11

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POLAR GRAPH



Maximum Candela = 767.398 Located At Horizontal Angle = 0, Vertical Angle = 35
1 - Vertical Plane Through Horizontal Angles (0 - 180)