

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2WAE51L840-4-UNV-WHP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32641.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 4/14/14
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] V2WAE51L840-4-UNV-WHP
[LUMINAIRE] 4' VAPORLUME
[MORE] 2-LP3.2.1 4000K BOARDS 54W DRIVER 5.6K RESISTOR WIDE OPTICS
[LAMP] LED. LUMINAIRE OUTPUT = 5039 LMS
[TESTDATE] 4/14/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5039
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	46.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.62
Spacing Criterion (90-270)	1.90
Spacing Criterion (Diagonal)	1.68
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.08 ft
Luminous Width (90-270)	0.55 ft
Luminous Height	0.17 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7608	7478	8723
55	5846	6332	6273
65	3509	3284	2076
75	2105	1246	976
85	1140	716	610

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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	1310.62	1310.62	1310.62	1310.62	1310.62	1310.62	1310.62	1310.62	1310.62	1310.62
2.5	1302.50	1317.24	1325.30	1330.76	1318.51	1330.76	1325.30	1317.24	1302.50	1317.24
5.0	1339.57	1348.94	1346.03	1346.51	1336.01	1346.51	1346.03	1348.94	1339.57	1348.94
7.5	1391.01	1395.09	1386.35	1382.92	1368.52	1382.92	1386.35	1395.09	1391.01	1395.09
10.0	1450.88	1454.52	1439.23	1432.83	1422.84	1432.83	1439.23	1454.52	1450.88	1454.52
12.5	1516.96	1517.36	1503.97	1495.34	1481.17	1495.34	1503.97	1517.36	1516.96	1517.36
15.0	1581.35	1576.01	1565.80	1558.77	1554.32	1558.77	1565.80	1576.01	1581.35	1576.01
17.5	1633.67	1624.75	1619.11	1630.38	1626.39	1630.38	1619.11	1624.75	1633.67	1624.75
20.0	1665.10	1662.12	1669.26	1696.11	1696.18	1696.11	1669.26	1662.12	1665.10	1662.12
22.5	1677.35	1679.71	1705.17	1744.72	1758.39	1744.72	1705.17	1679.71	1677.35	1679.71
25.0	1670.71	1679.94	1718.02	1779.24	1804.60	1779.24	1718.02	1679.94	1670.71	1679.94
27.5	1647.85	1665.72	1717.53	1793.28	1823.04	1793.28	1717.53	1665.72	1647.85	1665.72
30.0	1606.91	1631.52	1705.05	1787.69	1817.58	1787.69	1705.05	1631.52	1606.91	1631.52
32.5	1547.01	1586.32	1678.91	1767.59	1803.81	1767.59	1678.91	1586.32	1547.01	1586.32
35.0	1484.99	1532.29	1631.26	1738.96	1784.54	1738.96	1631.26	1532.29	1484.99	1532.29
37.5	1419.41	1472.08	1574.30	1699.82	1754.78	1699.82	1574.30	1472.08	1419.41	1472.08
40.0	1343.81	1403.19	1519.24	1660.79	1731.39	1660.79	1519.24	1403.19	1343.81	1403.19
42.5	1260.46	1327.35	1454.26	1627.04	1709.10	1627.04	1454.26	1327.35	1260.46	1327.35
45.0	1169.34	1241.91	1376.98	1590.26	1684.95	1590.26	1376.98	1241.91	1169.34	1241.91
47.5	1071.52	1149.89	1291.04	1541.16	1622.13	1541.16	1291.04	1149.89	1071.52	1149.89
50.0	967.59	1051.67	1203.47	1450.14	1498.54	1450.14	1203.47	1051.67	967.59	1051.67
52.5	855.42	944.57	1121.12	1305.19	1313.30	1305.19	1121.12	944.57	855.42	944.57
55.0	741.38	834.37	1026.30	1112.53	1082.19	1112.53	1026.30	834.37	741.38	834.37
57.5	626.94	722.88	904.50	878.26	818.32	878.26	904.50	722.88	626.94	722.88
60.0	518.61	612.75	755.05	630.62	588.63	630.62	755.05	612.75	518.61	612.75
62.5	421.46	509.75	597.23	433.93	421.66	433.93	597.23	509.75	421.46	509.75
65.0	337.06	420.22	443.58	302.47	304.36	302.47	443.58	420.22	337.06	420.22
67.5	267.44	345.25	321.68	220.32	225.42	220.32	321.68	345.25	267.44	345.25
70.0	212.85	282.82	230.90	169.73	173.61	169.73	230.90	282.82	212.85	282.82
72.5	168.15	228.48	169.57	136.47	138.44	136.47	169.57	228.48	168.15	228.48
75.0	131.39	180.66	129.55	112.54	113.47	112.54	129.55	180.66	131.39	180.66
77.5	100.69	138.05	102.10	93.60	94.25	93.60	102.10	138.05	100.69	138.05
80.0	73.83	101.82	81.25	77.95	78.30	77.95	81.25	101.82	73.83	101.82
82.5	50.10	72.22	64.11	63.75	63.78	63.75	64.11	72.22	50.10	72.22
85.0	30.62	48.97	49.96	50.06	50.25	50.06	49.96	48.97	30.62	48.97
87.5	16.70	33.07	39.24	39.37	39.81	39.37	39.24	33.07	16.70	33.07
90.0	11.29	25.34	32.25	31.97	32.09	31.97	32.25	25.34	11.29	25.34
92.5	11.44	22.81	28.95	27.71	27.41	27.71	28.95	22.81	11.44	22.81
95.0	11.89	21.80	27.75	25.64	25.07	25.64	27.75	21.80	11.89	21.80
97.5	11.85	21.86	28.33	25.19	24.29	25.19	28.33	21.86	11.85	21.86
100.0	11.57	22.07	29.46	25.73	24.47	25.73	29.46	22.07	11.57	22.07
102.5	10.86	22.52	31.15	26.87	25.15	26.87	31.15	22.52	10.86	22.52
105.0	10.07	22.44	33.00	28.09	26.14	28.09	33.00	22.44	10.07	22.44
107.5	9.27	22.02	34.49	29.42	27.06	29.42	34.49	22.02	9.27	22.02
110.0	8.36	21.07	35.64	30.70	28.04	30.70	35.64	21.07	8.36	21.07
112.5	7.48	19.65	36.12	31.78	29.09	31.78	36.12	19.65	7.48	19.65
115.0	6.53	17.52	35.87	32.73	30.13	32.73	35.87	17.52	6.53	17.52
117.5	5.64	15.32	35.18	33.67	31.23	33.67	35.18	15.32	5.64	15.32
120.0	5.00	12.97	33.79	34.31	32.31	34.31	33.79	12.97	5.00	12.97
122.5	4.37	10.69	31.44	34.51	33.02	34.51	31.44	10.69	4.37	10.69
125.0	3.96	8.38	28.37	34.46	33.97	34.46	28.37	8.38	3.96	8.38
127.5	3.35	6.30	25.26	34.28	34.27	34.28	25.26	6.30	3.35	6.30
130.0	3.12	4.57	22.12	33.25	34.17	33.25	22.12	4.57	3.12	4.57
132.5	2.81	3.12	18.91	31.54	33.15	31.54	18.91	3.12	2.81	3.12

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135.0	2.56	2.47	15.60	28.85	31.44	28.85	15.60	2.47	2.56	2.47
137.5	2.35	2.18	12.35	25.56	28.81	25.56	12.35	2.18	2.35	2.18
140.0	2.15	2.04	9.45	21.34	25.30	21.34	9.45	2.04	2.15	2.04
142.5	1.91	1.74	6.82	17.26	21.29	17.26	6.82	1.74	1.91	1.74
145.0	1.62	1.55	4.51	13.18	17.26	13.18	4.51	1.55	1.62	1.55
147.5	1.68	1.54	2.67	9.67	13.27	9.67	2.67	1.54	1.68	1.54
150.0	1.54	1.52	1.73	6.54	9.69	6.54	1.73	1.52	1.54	1.52
152.5	1.46	1.50	1.49	4.04	6.51	4.04	1.49	1.50	1.46	1.50
155.0	1.56	1.51	1.59	2.21	3.87	2.21	1.59	1.51	1.56	1.51
157.5	1.55	1.53	1.56	1.64	2.38	1.64	1.56	1.53	1.55	1.53
160.0	1.46	1.54	1.73	1.63	1.75	1.63	1.73	1.54	1.46	1.54
162.5	1.59	1.50	1.56	1.52	1.58	1.52	1.56	1.50	1.59	1.50
165.0	1.60	1.54	1.60	1.57	1.55	1.57	1.60	1.54	1.60	1.54
167.5	1.50	1.65	1.55	1.44	1.59	1.44	1.55	1.65	1.50	1.65
170.0	1.42	1.52	1.43	1.51	1.48	1.51	1.43	1.52	1.42	1.52
172.5	1.61	1.48	1.56	1.44	1.67	1.44	1.56	1.48	1.61	1.48
175.0	1.51	1.55	1.51	1.60	1.65	1.60	1.51	1.55	1.51	1.55
177.5	1.72	1.48	1.50	1.53	1.53	1.53	1.50	1.48	1.72	1.48
180.0	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57

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	1310.62	1310.62	1310.62	1310.62	1310.62	1310.62	1310.62
2.5	1325.30	1330.76	1318.51	1330.76	1325.30	1317.24	1302.50
5.0	1346.03	1346.51	1336.01	1346.51	1346.03	1348.94	1339.57
7.5	1386.35	1382.92	1368.52	1382.92	1386.35	1395.09	1391.01
10.0	1439.23	1432.83	1422.84	1432.83	1439.23	1454.52	1450.88
12.5	1503.97	1495.34	1481.17	1495.34	1503.97	1517.36	1516.96
15.0	1565.80	1558.77	1554.32	1558.77	1565.80	1576.01	1581.35
17.5	1619.11	1630.38	1626.39	1630.38	1619.11	1624.75	1633.67
20.0	1669.26	1696.11	1696.18	1696.11	1669.26	1662.12	1665.10
22.5	1705.17	1744.72	1758.39	1744.72	1705.17	1679.71	1677.35
25.0	1718.02	1779.24	1804.60	1779.24	1718.02	1679.94	1670.71
27.5	1717.53	1793.28	1823.04	1793.28	1717.53	1665.72	1647.85
30.0	1705.05	1787.69	1817.58	1787.69	1705.05	1631.52	1606.91
32.5	1678.91	1767.59	1803.81	1767.59	1678.91	1586.32	1547.01
35.0	1631.26	1738.96	1784.54	1738.96	1631.26	1532.29	1484.99
37.5	1574.30	1699.82	1754.78	1699.82	1574.30	1472.08	1419.41
40.0	1519.24	1660.79	1731.39	1660.79	1519.24	1403.19	1343.81
42.5	1454.26	1627.04	1709.10	1627.04	1454.26	1327.35	1260.46
45.0	1376.98	1590.26	1684.95	1590.26	1376.98	1241.91	1169.34
47.5	1291.04	1541.16	1622.13	1541.16	1291.04	1149.89	1071.52
50.0	1203.47	1450.14	1498.54	1450.14	1203.47	1051.67	967.59
52.5	1121.12	1305.19	1313.30	1305.19	1121.12	944.57	855.42
55.0	1026.30	1112.53	1082.19	1112.53	1026.30	834.37	741.38
57.5	904.50	878.26	818.32	878.26	904.50	722.88	626.94
60.0	755.05	630.62	588.63	630.62	755.05	612.75	518.61
62.5	597.23	433.93	421.66	433.93	597.23	509.75	421.46
65.0	443.58	302.47	304.36	302.47	443.58	420.22	337.06
67.5	321.68	220.32	225.42	220.32	321.68	345.25	267.44
70.0	230.90	169.73	173.61	169.73	230.90	282.82	212.85
72.5	169.57	136.47	138.44	136.47	169.57	228.48	168.15
75.0	129.55	112.54	113.47	112.54	129.55	180.66	131.39
77.5	102.10	93.60	94.25	93.60	102.10	138.05	100.69
80.0	81.25	77.95	78.30	77.95	81.25	101.82	73.83

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CANDELA TABULATION - (Cont.)

82.5	64.11	63.75	63.78	63.75	64.11	72.22	50.10
85.0	49.96	50.06	50.25	50.06	49.96	48.97	30.62
87.5	39.24	39.37	39.81	39.37	39.24	33.07	16.70
90.0	32.25	31.97	32.09	31.97	32.25	25.34	11.29
92.5	28.95	27.71	27.41	27.71	28.95	22.81	11.44
95.0	27.75	25.64	25.07	25.64	27.75	21.80	11.89
97.5	28.33	25.19	24.29	25.19	28.33	21.86	11.85
100.0	29.46	25.73	24.47	25.73	29.46	22.07	11.57
102.5	31.15	26.87	25.15	26.87	31.15	22.52	10.86
105.0	33.00	28.09	26.14	28.09	33.00	22.44	10.07
107.5	34.49	29.42	27.06	29.42	34.49	22.02	9.27
110.0	35.64	30.70	28.04	30.70	35.64	21.07	8.36
112.5	36.12	31.78	29.09	31.78	36.12	19.65	7.48
115.0	35.87	32.73	30.13	32.73	35.87	17.52	6.53
117.5	35.18	33.67	31.23	33.67	35.18	15.32	5.64
120.0	33.79	34.31	32.31	34.31	33.79	12.97	5.00
122.5	31.44	34.51	33.02	34.51	31.44	10.69	4.37
125.0	28.37	34.46	33.97	34.46	28.37	8.38	3.96
127.5	25.26	34.28	34.27	34.28	25.26	6.30	3.35
130.0	22.12	33.25	34.17	33.25	22.12	4.57	3.12
132.5	18.91	31.54	33.15	31.54	18.91	3.12	2.81
135.0	15.60	28.85	31.44	28.85	15.60	2.47	2.56
137.5	12.35	25.56	28.81	25.56	12.35	2.18	2.35
140.0	9.45	21.34	25.30	21.34	9.45	2.04	2.15
142.5	6.82	17.26	21.29	17.26	6.82	1.74	1.91
145.0	4.51	13.18	17.26	13.18	4.51	1.55	1.62
147.5	2.67	9.67	13.27	9.67	2.67	1.54	1.68
150.0	1.73	6.54	9.69	6.54	1.73	1.52	1.54
152.5	1.49	4.04	6.51	4.04	1.49	1.50	1.46
155.0	1.59	2.21	3.87	2.21	1.59	1.51	1.56
157.5	1.56	1.64	2.38	1.64	1.56	1.53	1.55
160.0	1.73	1.63	1.75	1.63	1.73	1.54	1.46
162.5	1.56	1.52	1.58	1.52	1.56	1.50	1.59
165.0	1.60	1.57	1.55	1.57	1.60	1.54	1.60
167.5	1.55	1.44	1.59	1.44	1.55	1.65	1.50
170.0	1.43	1.51	1.48	1.51	1.43	1.52	1.42
172.5	1.56	1.44	1.67	1.44	1.56	1.48	1.61
175.0	1.51	1.60	1.65	1.60	1.51	1.55	1.51
177.5	1.50	1.53	1.53	1.53	1.50	1.48	1.72
180.0	1.57	1.57	1.57	1.57	1.57	1.57	1.57

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	578.26	N.A.	11.50
0-30	1372.71	N.A.	27.20
0-40	2393.56	N.A.	47.50
0-60	4327.66	N.A.	85.90
0-80	4865.35	N.A.	96.60
0-90	4920.55	N.A.	97.70
10-90	4789.09	N.A.	95.00
20-40	1815.29	N.A.	36.00
20-50	2895.89	N.A.	57.50
40-70	2322.15	N.A.	46.10
60-80	537.69	N.A.	10.70
70-80	149.65	N.A.	3.00
80-90	55.20	N.A.	1.10
90-110	53.30	N.A.	1.10
90-120	79.09	N.A.	1.60
90-130	99.28	N.A.	2.00
90-150	116.39	N.A.	2.30
90-180	118.07	N.A.	2.30
110-180	64.77	N.A.	1.30
0-180	5038.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.46
10-20	446.80
20-30	794.44
30-40	1020.85
40-50	1080.59
50-60	853.51
60-70	388.04
70-80	149.65
80-90	55.20
90-100	26.55
100-110	26.75
110-120	25.79
120-130	20.19
130-140	12.36
140-150	4.75
150-160	1.09
160-170	0.44
170-180	0.15

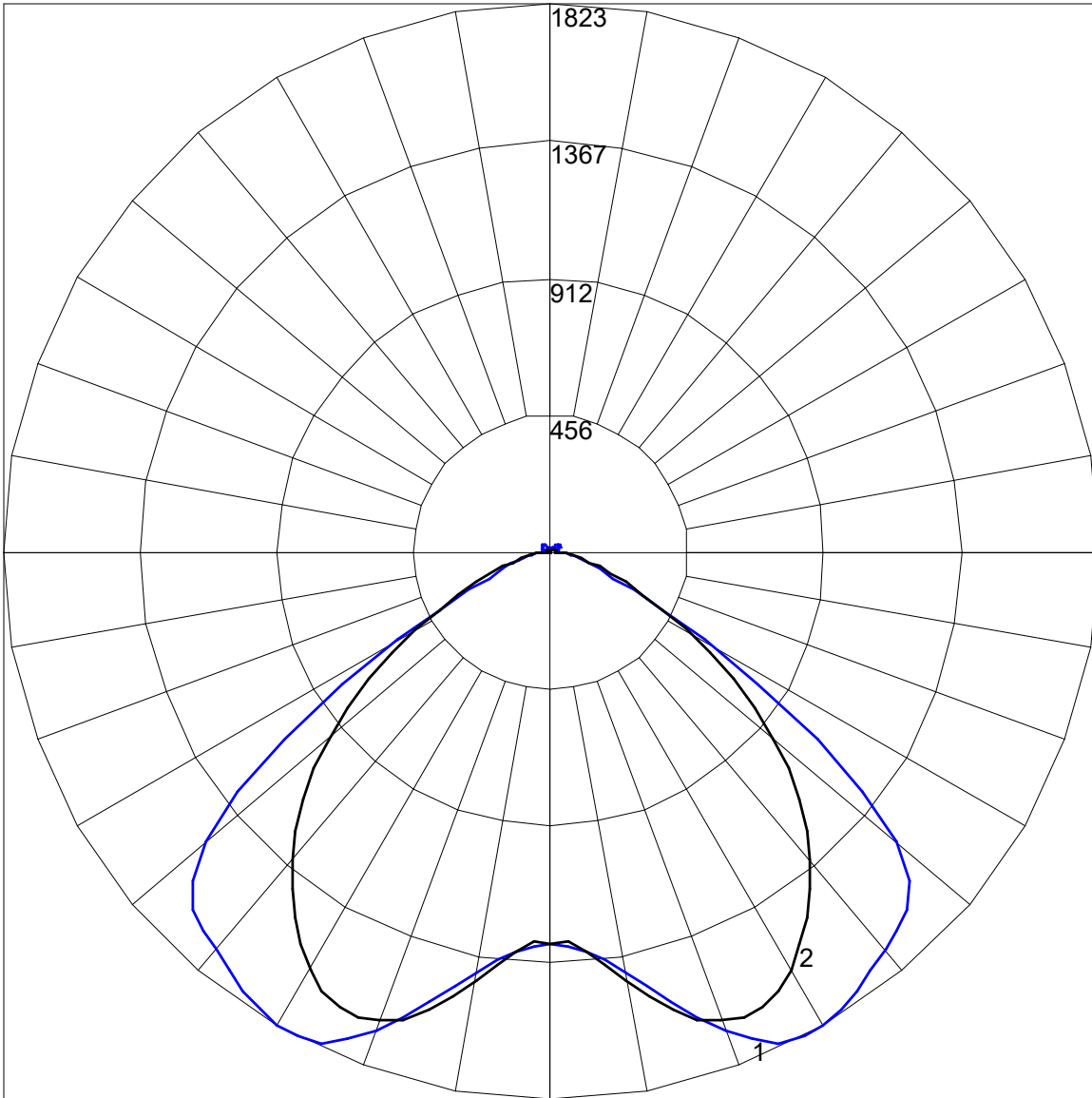
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	109	105	101	98	107	103	99	96	98	95	93	94	92	89	90	88	86	84
2	100	93	86	81	97	91	85	80	87	82	78	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	68	77	71	66	74	69	65	71	67	63	61
4	84	73	65	58	82	71	64	58	69	62	57	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	54	49	59	53	48	57	52	48	45
6	71	59	50	44	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	44	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	34	30	40	34	29	28
10	53	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1823.04 Located At Horizontal Angle = 90, Vertical Angle = 27.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)