

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SDL41L835-4-D-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32455.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 2/24/14
[MANUFAC] DAY-BRITE - CFI
[LUMCAT] 1SDL41L835-4-D-UNV-DIM
[LUMINAIRE] 1X4 SURFACE DUALED
[MORE] 2-LP3.2 3500K BOARDS 4.85K RESISTOR
[LAMP] LED. LUMINAIRE OUTPUT = 3939 LMS
[TESTDATE] 2/24/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3939
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	45.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.90 ft
Luminous Width (90-270)	0.85 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4220	4352	4418
55	3939	4102	4183
65	3427	3655	3686
75	2481	2782	2859
85	955	1334	1506

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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	1436.25	1436.25	1436.25	1436.25	1436.25	1436.25	1436.25	1436.25	1436.25	1436.25
2.5	1428.48	1433.52	1434.67	1438.30	1437.91	1438.30	1434.67	1433.52	1428.48	1433.52
5.0	1424.19	1428.35	1429.27	1434.18	1433.19	1434.18	1429.27	1428.35	1424.19	1428.35
7.5	1416.51	1420.27	1420.75	1427.58	1425.85	1427.58	1420.75	1420.27	1416.51	1420.27
10.0	1404.99	1409.64	1409.68	1416.01	1416.27	1416.01	1409.68	1409.64	1404.99	1409.64
12.5	1390.29	1396.38	1396.11	1401.53	1399.16	1401.53	1396.11	1396.38	1390.29	1396.38
15.0	1372.29	1379.24	1379.53	1381.56	1382.59	1381.56	1379.53	1379.24	1372.29	1379.24
17.5	1351.31	1358.12	1358.53	1362.97	1361.82	1362.97	1358.53	1358.12	1351.31	1358.12
20.0	1326.32	1332.75	1335.71	1342.42	1338.86	1342.42	1335.71	1332.75	1326.32	1332.75
22.5	1298.07	1304.61	1309.80	1316.65	1314.42	1316.65	1309.80	1304.61	1298.07	1304.61
25.0	1267.14	1274.65	1279.52	1286.93	1286.45	1286.93	1279.52	1274.65	1267.14	1274.65
27.5	1233.01	1241.98	1247.23	1253.72	1254.94	1253.72	1247.23	1241.98	1233.01	1241.98
30.0	1196.26	1204.86	1213.93	1219.05	1218.75	1219.05	1213.93	1204.86	1196.26	1204.86
32.5	1155.47	1165.65	1176.54	1181.54	1182.26	1181.54	1176.54	1165.65	1155.47	1165.65
35.0	1112.82	1123.60	1133.39	1140.83	1145.86	1140.83	1133.39	1123.60	1112.82	1123.60
37.5	1068.66	1078.74	1087.89	1099.55	1104.62	1099.55	1087.89	1078.74	1068.66	1078.74
40.0	1021.82	1031.16	1043.24	1057.50	1060.01	1057.50	1043.24	1031.16	1021.82	1031.16
42.5	971.96	981.69	997.51	1010.96	1012.42	1010.96	997.51	981.69	971.96	981.69
45.0	919.93	930.51	948.66	958.56	963.10	958.56	948.66	930.51	919.93	930.51
47.5	867.01	876.37	896.54	905.60	912.01	905.60	896.54	876.37	867.01	876.37
50.0	812.40	820.57	841.47	852.11	858.36	852.11	841.47	820.57	812.40	820.57
52.5	755.08	763.34	784.01	796.26	799.86	796.26	784.01	763.34	755.08	763.34
55.0	696.45	705.65	725.22	734.66	739.62	734.66	725.22	705.65	696.45	705.65
57.5	635.82	646.94	664.77	673.00	676.96	673.00	664.77	646.94	635.82	646.94
60.0	573.50	585.64	602.70	611.22	614.51	611.22	602.70	585.64	573.50	585.64
62.5	510.28	522.73	540.29	546.79	548.33	546.79	540.29	522.73	510.28	522.73
65.0	446.47	459.38	476.10	479.50	480.23	479.50	476.10	459.38	446.47	459.38
67.5	382.37	396.20	411.25	411.15	412.65	411.15	411.25	396.20	382.37	396.20
70.0	318.61	333.56	345.94	345.30	348.11	345.30	345.94	333.56	318.61	333.56
72.5	256.75	272.58	282.54	283.48	286.50	283.48	282.54	272.58	256.75	272.58
75.0	197.93	214.23	221.96	224.82	228.12	224.82	221.96	214.23	197.93	214.23
77.5	143.21	158.74	166.40	169.49	173.00	169.49	166.40	158.74	143.21	158.74
80.0	94.70	107.41	116.34	118.82	122.33	118.82	116.34	107.41	94.70	107.41
82.5	54.74	64.45	71.87	74.09	77.20	74.09	71.87	64.45	54.74	64.45
85.0	25.67	31.70	35.85	37.23	40.45	37.23	35.85	31.70	25.67	31.70
87.5	8.94	9.85	10.92	12.85	17.68	12.85	10.92	9.85	8.94	9.85
90.0	1.49	1.10	1.36	2.06	4.12	2.06	1.36	1.10	1.49	1.10
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	1436.25	1436.25	1436.25	1436.25	1436.25	1436.25	1436.25
2.5	1434.67	1438.30	1437.91	1438.30	1434.67	1433.52	1428.48
5.0	1429.27	1434.18	1433.19	1434.18	1429.27	1428.35	1424.19
7.5	1420.75	1427.58	1425.85	1427.58	1420.75	1420.27	1416.51
10.0	1409.68	1416.01	1416.27	1416.01	1409.68	1409.64	1404.99
12.5	1396.11	1401.53	1399.16	1401.53	1396.11	1396.38	1390.29
15.0	1379.53	1381.56	1382.59	1381.56	1379.53	1379.24	1372.29
17.5	1358.53	1362.97	1361.82	1362.97	1358.53	1358.12	1351.31
20.0	1335.71	1342.42	1338.86	1342.42	1335.71	1332.75	1326.32
22.5	1309.80	1316.65	1314.42	1316.65	1309.80	1304.61	1298.07
25.0	1279.52	1286.93	1286.45	1286.93	1279.52	1274.65	1267.14
27.5	1247.23	1253.72	1254.94	1253.72	1247.23	1241.98	1233.01
30.0	1213.93	1219.05	1218.75	1219.05	1213.93	1204.86	1196.26
32.5	1176.54	1181.54	1182.26	1181.54	1176.54	1165.65	1155.47
35.0	1133.39	1140.83	1145.86	1140.83	1133.39	1123.60	1112.82
37.5	1087.89	1099.55	1104.62	1099.55	1087.89	1078.74	1068.66
40.0	1043.24	1057.50	1060.01	1057.50	1043.24	1031.16	1021.82
42.5	997.51	1010.96	1012.42	1010.96	997.51	981.69	971.96
45.0	948.66	958.56	963.10	958.56	948.66	930.51	919.93
47.5	896.54	905.60	912.01	905.60	896.54	876.37	867.01
50.0	841.47	852.11	858.36	852.11	841.47	820.57	812.40
52.5	784.01	796.26	799.86	796.26	784.01	763.34	755.08
55.0	725.22	734.66	739.62	734.66	725.22	705.65	696.45
57.5	664.77	673.00	676.96	673.00	664.77	646.94	635.82
60.0	602.70	611.22	614.51	611.22	602.70	585.64	573.50
62.5	540.29	546.79	548.33	546.79	540.29	522.73	510.28
65.0	476.10	479.50	480.23	479.50	476.10	459.38	446.47
67.5	411.25	411.15	412.65	411.15	411.25	396.20	382.37
70.0	345.94	345.30	348.11	345.30	345.94	333.56	318.61
72.5	282.54	283.48	286.50	283.48	282.54	272.58	256.75
75.0	221.96	224.82	228.12	224.82	221.96	214.23	197.93
77.5	166.40	169.49	173.00	169.49	166.40	158.74	143.21
80.0	116.34	118.82	122.33	118.82	116.34	107.41	94.70

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CANDELA TABULATION - (Cont.)

82.5	71.87	74.09	77.20	74.09	71.87	64.45	54.74
85.0	35.85	37.23	40.45	37.23	35.85	31.70	25.67
87.5	10.92	12.85	17.68	12.85	10.92	9.85	8.94
90.0	1.36	2.06	4.12	2.06	1.36	1.10	1.49
92.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
97.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
102.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
105.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
107.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
112.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
122.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
132.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
137.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
142.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
147.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
157.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
162.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
172.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	525.26	N.A.	13.30
0-30	1114.78	N.A.	28.30
0-40	1822.64	N.A.	46.30
0-60	3194.65	N.A.	81.10
0-80	3892.18	N.A.	98.80
0-90	3939.1	N.A.	100.00
10-90	3803.17	N.A.	96.50
20-40	1297.38	N.A.	32.90
20-50	2025.64	N.A.	51.40
40-70	1836.24	N.A.	46.60
60-80	697.52	N.A.	17.70
70-80	233.29	N.A.	5.90
80-90	46.92	N.A.	1.20
90-110	0.25	N.A.	0.00
90-120	0.25	N.A.	0.00
90-130	0.25	N.A.	0.00
90-150	0.25	N.A.	0.00
90-180	0.25	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3939.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.93
10-20	389.33
20-30	589.52
30-40	707.86
40-50	728.26
50-60	643.75
60-70	464.23
70-80	233.29
80-90	46.92
90-100	0.25
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

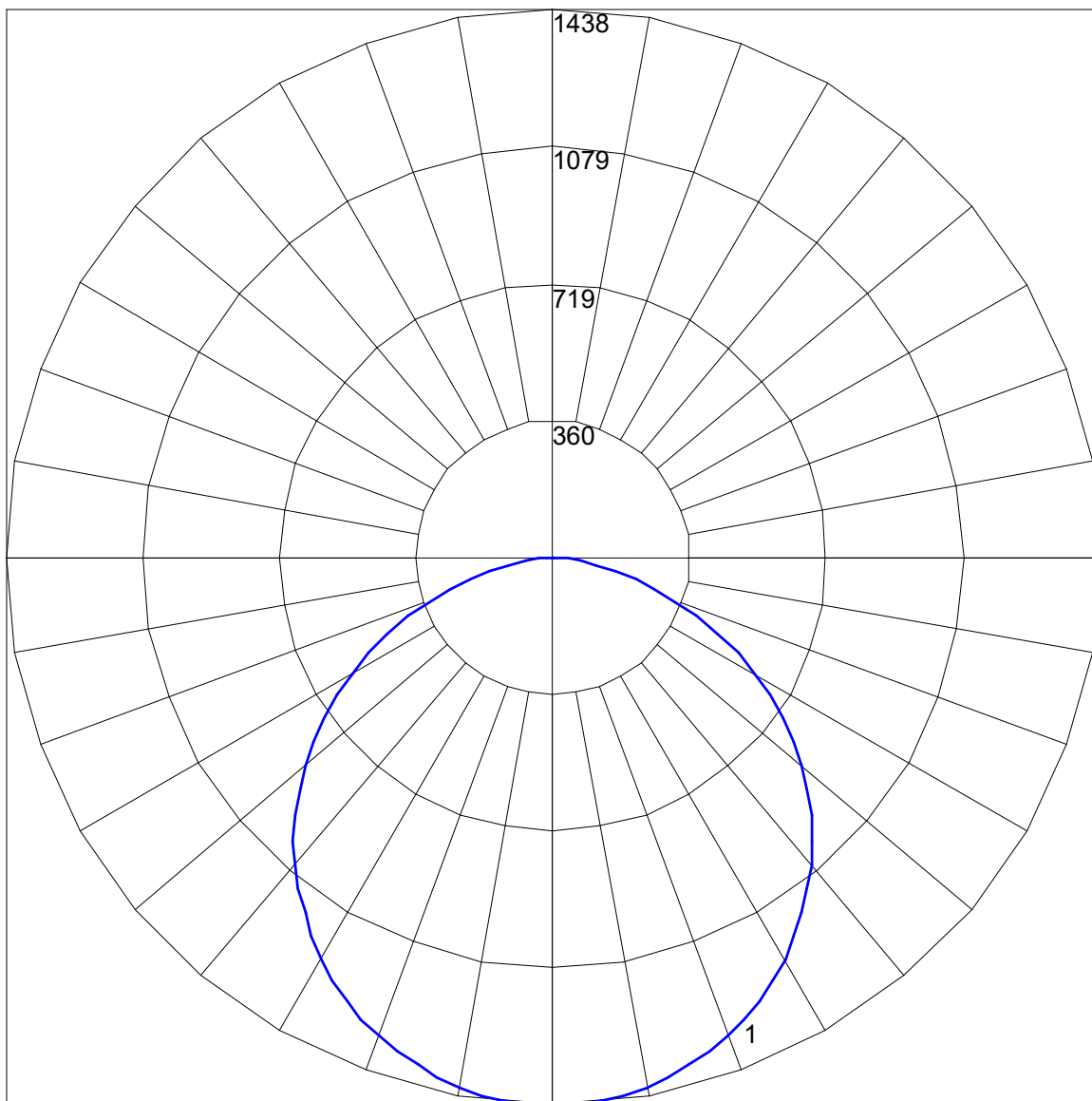
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 1438.3 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)