

Day-Brite



by Signify

IES INDOOR REPORT PHOTOMETRIC FILENAME : 1STXG45L840-4-D-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO40754.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 4/12/19
[MANUFAC] DAY-BRITE by SIGNIFY
[LUMCAT] 1STXG45L840-4-D-UNV-DIM
[LUMINAIRE] 1X4 SOFTRACE 2-SLIMC 2.26L8 4000K BOARDS 40W DRIVER @1020mA RLR 73%
[LAMP] LED. LUMINAIRE OUTPUT = 4524 LUMENS
[TESTDATE] 4/12/19

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4526
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	41.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.81 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5088	5150	5159
55	4889	4986	5043
65	4258	4752	4786
75	3668	4295	4222
85	2597	2868	2518

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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	1585.3	1585.3	1585.3	1585.3	1585.3	1585.3	1585.3	1585.3	1585.3	1585.3
2.5	1558.2	1573.0	1587.0	1596.2	1597.7	1596.2	1587.0	1573.0	1558.2	1573.0
5.0	1552.7	1567.3	1581.3	1591.1	1592.1	1591.1	1581.3	1567.3	1552.7	1567.3
7.5	1543.9	1558.1	1572.2	1581.8	1583.1	1581.8	1572.2	1558.1	1543.9	1558.1
10.0	1531.7	1545.8	1559.7	1568.9	1570.7	1568.9	1559.7	1545.8	1531.7	1545.8
12.5	1516.1	1530.0	1543.5	1552.5	1554.3	1552.5	1543.5	1530.0	1516.1	1530.0
15.0	1496.4	1510.3	1523.5	1532.2	1533.9	1532.2	1523.5	1510.3	1496.4	1510.3
17.5	1474.1	1487.0	1499.9	1508.2	1509.7	1508.2	1499.9	1487.0	1474.1	1487.0
20.0	1448.4	1460.7	1473.2	1480.9	1481.7	1480.9	1473.2	1460.7	1448.4	1460.7
22.5	1419.6	1431.3	1442.6	1449.6	1450.8	1449.6	1442.6	1431.3	1419.6	1431.3
25.0	1387.8	1398.9	1409.4	1414.9	1416.7	1414.9	1409.4	1398.9	1387.8	1398.9
27.5	1353.0	1363.9	1373.1	1377.9	1378.2	1377.9	1373.1	1363.9	1353.0	1363.9
30.0	1315.6	1326.1	1334.6	1339.3	1337.8	1339.3	1334.6	1326.1	1315.6	1326.1
32.5	1274.4	1285.4	1294.2	1296.9	1296.6	1296.9	1294.2	1285.4	1274.4	1285.4
35.0	1231.1	1242.6	1250.0	1252.1	1252.0	1252.1	1250.0	1242.6	1231.1	1242.6
37.5	1186.3	1197.1	1202.8	1205.4	1204.8	1205.4	1202.8	1197.1	1186.3	1197.1
40.0	1139.5	1148.7	1154.1	1156.3	1155.6	1156.3	1154.1	1148.7	1139.5	1148.7
42.5	1090.1	1098.2	1103.2	1105.1	1104.4	1105.1	1103.2	1098.2	1090.1	1098.2
45.0	1037.8	1045.4	1050.5	1052.4	1052.3	1052.4	1050.5	1045.4	1037.8	1045.4
47.5	982.8	990.7	995.9	998.7	999.0	998.7	995.9	990.7	982.8	990.7
50.0	925.9	934.2	939.8	943.8	945.0	943.8	939.8	934.2	925.9	934.2
52.5	868.0	876.0	882.6	888.4	890.0	888.4	882.6	876.0	868.0	876.0
55.0	809.0	816.4	825.0	832.6	834.5	832.6	825.0	816.4	809.0	816.4
57.5	748.4	755.2	766.9	776.4	778.4	776.4	766.9	755.2	748.4	755.2
60.0	686.0	693.0	708.8	719.9	721.9	719.9	708.8	693.0	686.0	693.0
62.5	621.9	630.2	650.5	661.8	663.8	661.8	650.5	630.2	621.9	630.2
65.0	519.1	548.2	579.4	590.5	583.5	590.5	579.4	548.2	519.1	548.2
67.5	457.3	469.6	496.8	518.3	522.8	518.3	496.8	469.6	457.3	469.6
70.0	395.3	411.1	440.1	443.2	442.6	443.2	440.1	411.1	395.3	411.1
72.5	334.1	353.7	381.4	381.5	380.2	381.5	381.4	353.7	334.1	353.7
75.0	273.9	297.8	320.7	318.4	315.2	318.4	320.7	297.8	273.9	297.8
77.5	215.2	243.2	258.9	251.9	248.0	251.9	258.9	243.2	215.2	243.2
80.0	159.7	189.0	195.0	185.2	182.2	185.2	195.0	189.0	159.7	189.0
82.5	109.9	135.1	130.8	122.3	119.7	122.3	130.8	135.1	109.9	135.1
85.0	65.3	79.7	72.1	65.0	63.3	65.0	72.1	79.7	65.3	79.7
87.5	29.1	29.5	25.3	24.6	25.7	24.6	25.3	29.5	29.1	29.5
90.0	3.1	4.3	6.0	7.2	7.9	7.2	6.0	4.3	3.1	4.3
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 1STXG45L840-4-D-UNV-DIM.IES

CANDELA TABULATION - (Cont.)

135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. 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	1585.3	1585.3	1585.3	1585.3	1585.3	1585.3	1585.3
2.5	1587.0	1596.2	1597.7	1596.2	1587.0	1573.0	1558.2
5.0	1581.3	1591.1	1592.1	1591.1	1581.3	1567.3	1552.7
7.5	1572.2	1581.8	1583.1	1581.8	1572.2	1558.1	1543.9
10.0	1559.7	1568.9	1570.7	1568.9	1559.7	1545.8	1531.7
12.5	1543.5	1552.5	1554.3	1552.5	1543.5	1530.0	1516.1
15.0	1523.5	1532.2	1533.9	1532.2	1523.5	1510.3	1496.4
17.5	1499.9	1508.2	1509.7	1508.2	1499.9	1487.0	1474.1
20.0	1473.2	1480.9	1481.7	1480.9	1473.2	1460.7	1448.4
22.5	1442.6	1449.6	1450.8	1449.6	1442.6	1431.3	1419.6
25.0	1409.4	1414.9	1416.7	1414.9	1409.4	1398.9	1387.8
27.5	1373.1	1377.9	1378.2	1377.9	1373.1	1363.9	1353.0
30.0	1334.6	1339.3	1337.8	1339.3	1334.6	1326.1	1315.6
32.5	1294.2	1296.9	1296.6	1296.9	1294.2	1285.4	1274.4
35.0	1250.0	1252.1	1252.0	1252.1	1250.0	1242.6	1231.1
37.5	1202.8	1205.4	1204.8	1205.4	1202.8	1197.1	1186.3
40.0	1154.1	1156.3	1155.6	1156.3	1154.1	1148.7	1139.5
42.5	1103.2	1105.1	1104.4	1105.1	1103.2	1098.2	1090.1
45.0	1050.5	1052.4	1052.3	1052.4	1050.5	1045.4	1037.8
47.5	995.9	998.7	999.0	998.7	995.9	990.7	982.8
50.0	939.8	943.8	945.0	943.8	939.8	934.2	925.9
52.5	882.6	888.4	890.0	888.4	882.6	876.0	868.0
55.0	825.0	832.6	834.5	832.6	825.0	816.4	809.0
57.5	766.9	776.4	778.4	776.4	766.9	755.2	748.4
60.0	708.8	719.9	721.9	719.9	708.8	693.0	686.0
62.5	650.5	661.8	663.8	661.8	650.5	630.2	621.9
65.0	579.4	590.5	583.5	590.5	579.4	548.2	519.1
67.5	496.8	518.3	522.8	518.3	496.8	469.6	457.3
70.0	440.1	443.2	442.6	443.2	440.1	411.1	395.3
72.5	381.4	381.5	380.2	381.5	381.4	353.7	334.1
75.0	320.7	318.4	315.2	318.4	320.7	297.8	273.9
77.5	258.9	251.9	248.0	251.9	258.9	243.2	215.2
80.0	195.0	185.2	182.2	185.2	195.0	189.0	159.7

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CANDELA TABULATION - (Cont.)

82.5	130.8	122.3	119.7	122.3	130.8	135.1	109.9
85.0	72.1	65.0	63.3	65.0	72.1	79.7	65.3
87.5	25.3	24.6	25.7	24.6	25.3	29.5	29.1
90.0	6.0	7.2	7.9	7.2	6.0	4.3	3.1
92.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	578.89	N.A.	12.80
0-30	1226.99	N.A.	27.10
0-40	2006.72	N.A.	44.30
0-60	3552.04	N.A.	78.50
0-80	4438.9	N.A.	98.10
0-90	4525.43	N.A.	100.00
10-90	4375.48	N.A.	96.70
20-40	1427.84	N.A.	31.50
20-50	2236.49	N.A.	49.40
40-70	2107.98	N.A.	46.60
60-80	886.87	N.A.	19.60
70-80	324.20	N.A.	7.20
80-90	86.52	N.A.	1.90
90-110	0.79	N.A.	0.00
90-120	0.79	N.A.	0.00
90-130	0.79	N.A.	0.00
90-150	0.79	N.A.	0.00
90-180	0.79	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4526.21	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	149.94
10-20	428.95
20-30	648.10
30-40	779.74
40-50	808.65
50-60	736.66
60-70	562.66
70-80	324.20
80-90	86.52
90-100	0.79
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

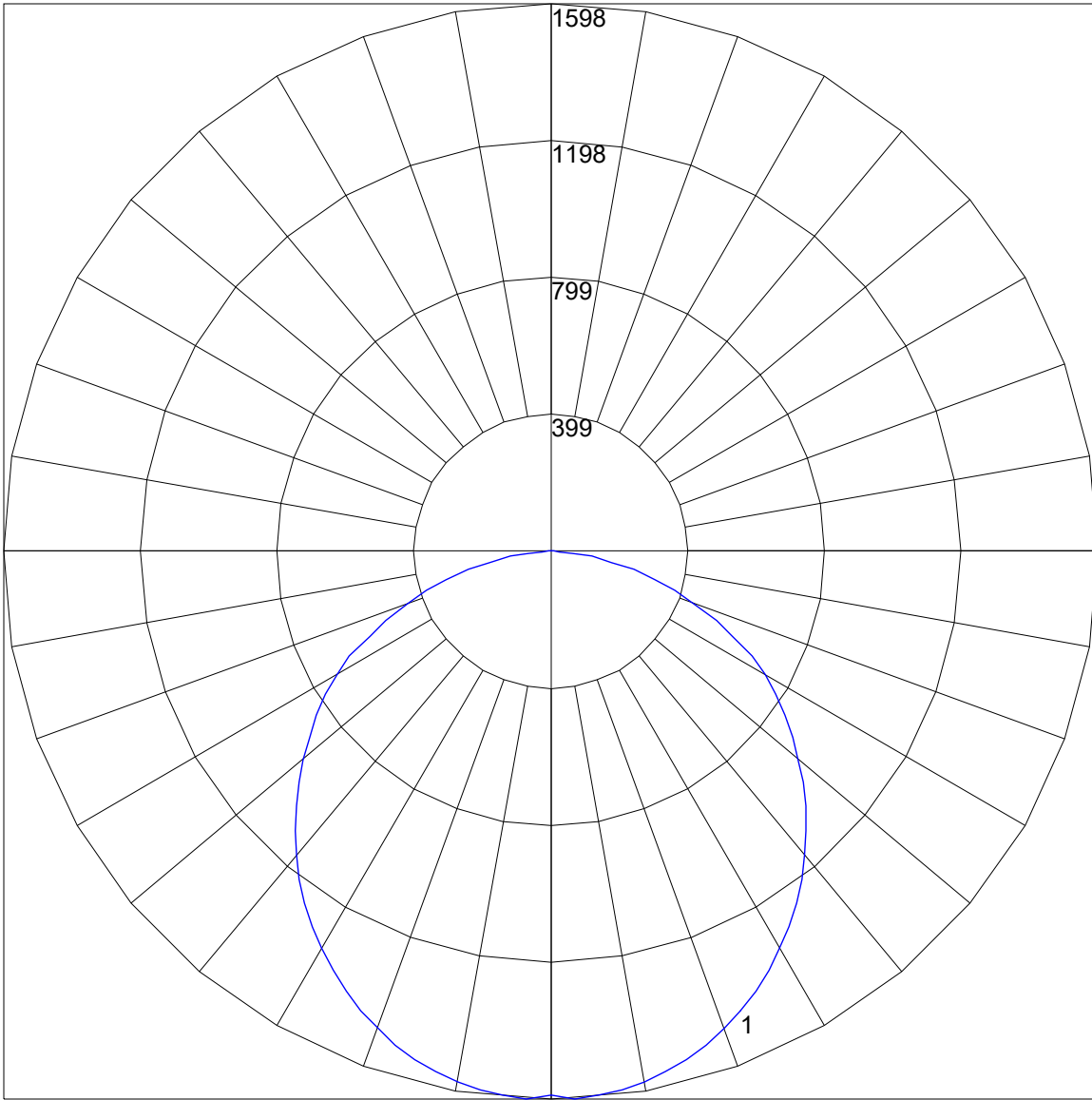
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 1STXG45L840-4-D-UNV-DIM.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 1597.7 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)