

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FBX08LL40-UNV-N-LPA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32729.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 5/1/14
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] FBX08LL40-UNV-N-LPA
[LUMINAIRE] FBX HIGHBAY
[MORE] 2-LP3.2 4000K BOARDS 95W DRIVER 10.5K RESISTOR NARROW OPTICS PRISMATIC LENS
[LAMP] LED. LUMINAIRE OUTPUT = 7458 LMS
[TEST DATE] 5/1/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7458
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	82.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.08 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6462	5833	5136
55	4025	3526	3696
65	3601	2977	4762
75	4059	3375	6459
85	5868	3778	7015

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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	8608.18	8608.18	8608.18	8608.18	8608.18	8608.18	8608.18	8608.18	8608.18	8608.18
2.5	8595.42	8578.36	8583.63	8553.57	8552.12	8553.57	8583.63	8578.36	8595.42	8578.36
5.0	8513.96	8492.25	8454.47	8413.77	8410.35	8413.77	8454.47	8492.25	8513.96	8492.25
7.5	8332.79	8303.88	8236.22	8138.26	8121.18	8138.26	8236.22	8303.88	8332.79	8303.88
10.0	8094.01	8045.86	7921.90	7755.87	7668.29	7755.87	7921.90	8045.86	8094.01	8045.86
12.5	7749.58	7676.86	7465.78	7210.46	7223.41	7210.46	7465.78	7676.86	7749.58	7676.86
15.0	7310.59	7189.20	6906.82	6694.29	6630.75	6694.29	6906.82	7189.20	7310.59	7189.20
17.5	6752.73	6630.35	6323.13	6074.77	5990.90	6074.77	6323.13	6630.35	6752.73	6630.35
20.0	6133.92	6017.47	5703.59	5362.92	5294.71	5362.92	5703.59	6017.47	6133.92	6017.47
22.5	5444.72	5316.05	5025.78	4651.28	4595.34	4651.28	5025.78	5316.05	5444.72	5316.05
25.0	4708.39	4592.54	4287.88	3986.08	3869.27	3986.08	4287.88	4592.54	4708.39	4592.54
27.5	3985.79	3841.67	3594.91	3301.70	3206.45	3301.70	3594.91	3841.67	3985.79	3841.67
30.0	3276.90	3138.37	2929.49	2680.19	2604.09	2680.19	2929.49	3138.37	3276.90	3138.37
32.5	2603.64	2520.34	2330.55	2143.80	2127.61	2143.80	2330.55	2520.34	2603.64	2520.34
35.0	2075.72	2000.28	1840.12	1724.46	1711.99	1724.46	1840.12	2000.28	2075.72	2000.28
37.5	1658.87	1586.64	1466.15	1372.48	1360.20	1372.48	1466.15	1586.64	1658.87	1586.64
40.0	1324.46	1268.67	1170.68	1093.39	1085.03	1093.39	1170.68	1268.67	1324.46	1268.67
42.5	1077.07	1022.88	961.72	891.01	879.01	891.01	961.72	1022.88	1077.07	1022.88
45.0	881.07	835.30	795.35	708.77	700.22	708.77	795.35	835.30	881.07	835.30
47.5	717.60	706.81	647.90	592.58	570.34	592.58	647.90	706.81	717.60	706.81
50.0	601.42	592.25	542.92	509.05	489.98	509.05	542.92	592.25	601.42	592.25
52.5	505.80	495.61	468.23	437.50	445.44	437.50	468.23	495.61	505.80	495.61
55.0	445.18	425.29	390.00	400.54	408.78	400.54	390.00	425.29	445.18	425.29
57.5	400.14	359.07	362.37	373.97	367.88	373.97	362.37	359.07	400.14	359.07
60.0	351.52	329.67	311.48	348.99	385.35	348.99	311.48	329.67	351.52	329.67
62.5	316.91	288.45	281.43	338.13	384.49	338.13	281.43	288.45	316.91	288.45
65.0	293.44	264.06	242.57	318.38	388.05	318.38	242.57	264.06	293.44	264.06
67.5	264.19	236.86	215.91	290.01	369.32	290.01	215.91	236.86	264.19	236.86
70.0	238.71	225.93	198.03	300.52	361.06	300.52	198.03	225.93	238.71	225.93
72.5	208.51	180.30	180.05	267.50	345.21	267.50	180.05	180.30	208.51	180.30
75.0	202.57	169.71	168.44	247.04	322.37	247.04	168.44	169.71	202.57	169.71
77.5	195.86	149.63	138.56	208.68	270.92	208.68	138.56	149.63	195.86	149.63
80.0	164.72	127.68	123.53	191.52	253.34	191.52	123.53	127.68	164.72	127.68
82.5	150.12	100.12	92.45	147.05	194.70	147.05	92.45	100.12	150.12	100.12
85.0	98.62	80.13	63.50	90.70	117.90	90.70	63.50	80.13	98.62	80.13
87.5	48.75	37.44	24.22	31.00	66.74	31.00	24.22	37.44	48.75	37.44
90.0	5.74	0.00	0.00	7.78	0.00	7.78	0.00	0.00	5.74	0.00
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	8608.18	8608.18	8608.18	8608.18	8608.18	8608.18	8608.18
2.5	8583.63	8553.57	8552.12	8553.57	8583.63	8578.36	8595.42
5.0	8454.47	8413.77	8410.35	8413.77	8454.47	8492.25	8513.96
7.5	8236.22	8138.26	8121.18	8138.26	8236.22	8303.88	8332.79
10.0	7921.90	7755.87	7668.29	7755.87	7921.90	8045.86	8094.01
12.5	7465.78	7210.46	7223.41	7210.46	7465.78	7676.86	7749.58
15.0	6906.82	6694.29	6630.75	6694.29	6906.82	7189.20	7310.59
17.5	6323.13	6074.77	5990.90	6074.77	6323.13	6630.35	6752.73
20.0	5703.59	5362.92	5294.71	5362.92	5703.59	6017.47	6133.92
22.5	5025.78	4651.28	4595.34	4651.28	5025.78	5316.05	5444.72
25.0	4287.88	3986.08	3869.27	3986.08	4287.88	4592.54	4708.39
27.5	3594.91	3301.70	3206.45	3301.70	3594.91	3841.67	3985.79
30.0	2929.49	2680.19	2604.09	2680.19	2929.49	3138.37	3276.90
32.5	2330.55	2143.80	2127.61	2143.80	2330.55	2520.34	2603.64
35.0	1840.12	1724.46	1711.99	1724.46	1840.12	2000.28	2075.72
37.5	1466.15	1372.48	1360.20	1372.48	1466.15	1586.64	1658.87
40.0	1170.68	1093.39	1085.03	1093.39	1170.68	1268.67	1324.46
42.5	961.72	891.01	879.01	891.01	961.72	1022.88	1077.07
45.0	795.35	708.77	700.22	708.77	795.35	835.30	881.07
47.5	647.90	592.58	570.34	592.58	647.90	706.81	717.60
50.0	542.92	509.05	489.98	509.05	542.92	592.25	601.42
52.5	468.23	437.50	445.44	437.50	468.23	495.61	505.80
55.0	390.00	400.54	408.78	400.54	390.00	425.29	445.18
57.5	362.37	373.97	367.88	373.97	362.37	359.07	400.14
60.0	311.48	348.99	385.35	348.99	311.48	329.67	351.52
62.5	281.43	338.13	384.49	338.13	281.43	288.45	316.91
65.0	242.57	318.38	388.05	318.38	242.57	264.06	293.44
67.5	215.91	290.01	369.32	290.01	215.91	236.86	264.19
70.0	198.03	300.52	361.06	300.52	198.03	225.93	238.71
72.5	180.05	267.50	345.21	267.50	180.05	180.30	208.51
75.0	168.44	247.04	322.37	247.04	168.44	169.71	202.57
77.5	138.56	208.68	270.92	208.68	138.56	149.63	195.86
80.0	123.53	191.52	253.34	191.52	123.53	127.68	164.72

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CANDELA TABULATION - (Cont.)

82.5	92.45	147.05	194.70	147.05	92.45	100.12	150.12
85.0	63.50	90.70	117.90	90.70	63.50	80.13	98.62
87.5	24.22	31.00	66.74	31.00	24.22	37.44	48.75
90.0	0.00	7.78	0.00	7.78	0.00	0.00	5.74
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	2709.77	N.A.	36.30
0-30	4660.59	N.A.	62.50
0-40	5855.25	N.A.	78.50
0-60	6857.68	N.A.	92.00
0-80	7366.38	N.A.	98.80
0-90	7457.28	N.A.	100.00
10-90	6668.06	N.A.	89.40
20-40	3145.47	N.A.	42.20
20-50	3769.86	N.A.	50.60
40-70	1291.93	N.A.	17.30
60-80	508.70	N.A.	6.80
70-80	219.21	N.A.	2.90
80-90	90.90	N.A.	1.20
90-110	0.36	N.A.	0.00
90-120	0.36	N.A.	0.00
90-130	0.36	N.A.	0.00
90-150	0.36	N.A.	0.00
90-180	0.36	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	7457.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	789.23
10-20	1920.55
20-30	1950.82
30-40	1194.66
40-50	624.39
50-60	378.05
60-70	289.49
70-80	219.21
80-90	90.90
90-100	0.36
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

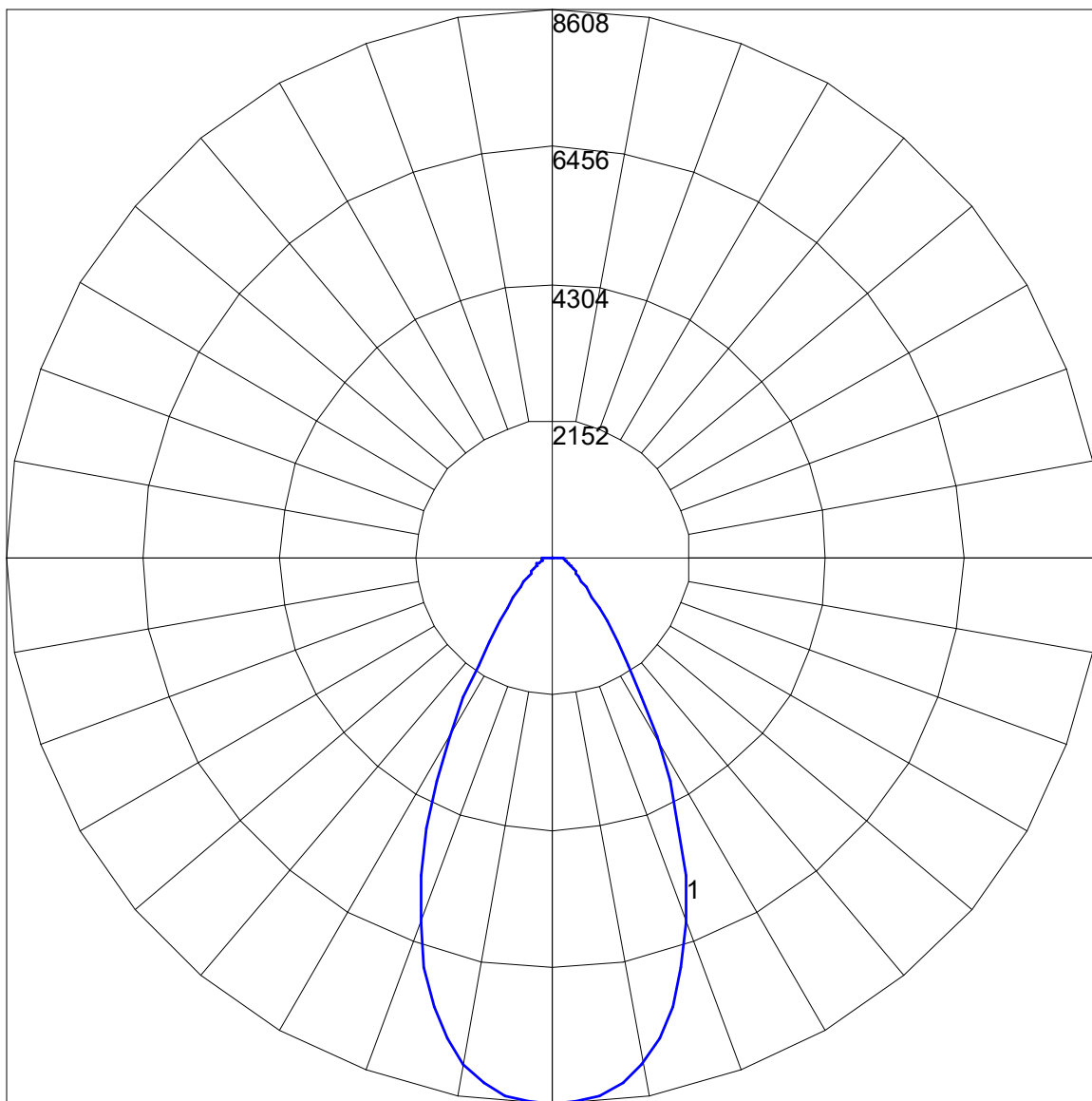
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	84	82
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63
6	83	74	67	62	82	73	66	62	71	66	61	70	65	61	68	64	61	59
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51
9	72	61	55	50	70	61	55	50	60	54	50	59	54	50	58	53	50	48
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46

POLAR GRAPH



Maximum Candela = 8608.18 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)