

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FBY12L840-UNV-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] F40013.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 9/10/18
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] FBY12L840-UNV-LFA
[LUMINAIRE] FBY CORE HIGHBAY
[MORE] 2-FORTIMO EDGE 96UP 4000K BOARDS 95W DRIVER @1.7mA FROSTED ACRYLIC LENS
[LAMP] LED LUMINAIRE OUTPUT = 11085 LUMENS
[TEST DATE] 9/10/18
[LM79] Absolute Photometry tested in accordance with IES procedure LM79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	87.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.81 ft
Luminous Width (90-270)	0.91 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22608	22107	21901
55	20792	20386	20053
65	18675	18333	18036
75	15824	15842	15516
85	11184	13199	13596

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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	4164.8	4164.8	4164.8	4164.8	4164.8	4164.8	4164.8	4164.8	4164.8	4164.8
2.5	4154.9	4146.6	4156.1	4172.0	4175.6	4172.0	4156.1	4146.6	4154.9	4146.6
5.0	4136.2	4128.4	4144.7	4167.1	4167.5	4167.1	4144.7	4128.4	4136.2	4128.4
7.5	4105.7	4100.8	4129.3	4127.1	4119.6	4127.1	4129.3	4100.8	4105.7	4100.8
10.0	4064.3	4065.2	4074.4	4055.8	4048.9	4055.8	4074.4	4065.2	4064.3	4065.2
12.5	4009.9	4020.8	3991.5	3976.7	3972.1	3976.7	3991.5	4020.8	4009.9	4020.8
15.0	3944.6	3959.3	3908.4	3898.8	3894.6	3898.8	3908.4	3959.3	3944.6	3959.3
17.5	3866.6	3874.8	3819.2	3808.8	3801.3	3808.8	3819.2	3874.8	3866.6	3874.8
20.0	3780.1	3772.7	3722.2	3708.6	3700.3	3708.6	3722.2	3772.7	3780.1	3772.7
22.5	3682.0	3659.1	3616.7	3600.3	3589.8	3600.3	3616.7	3659.1	3682.0	3659.1
25.0	3573.6	3539.5	3501.8	3480.4	3468.9	3480.4	3501.8	3539.5	3573.6	3539.5
27.5	3457.6	3415.3	3380.2	3357.9	3343.4	3357.9	3380.2	3415.3	3457.6	3415.3
30.0	3332.7	3286.8	3249.6	3227.7	3216.5	3227.7	3249.6	3286.8	3332.7	3286.8
32.5	3198.9	3153.8	3115.2	3095.2	3082.4	3095.2	3115.2	3153.8	3198.9	3153.8
35.0	3058.7	3014.4	2976.7	2961.5	2948.8	2961.5	2976.7	3014.4	3058.7	3014.4
37.5	2912.9	2869.6	2834.2	2823.6	2809.7	2823.6	2834.2	2869.6	2912.9	2869.6
40.0	2762.1	2719.7	2690.1	2682.2	2668.7	2682.2	2690.1	2719.7	2762.1	2719.7
42.5	2606.8	2567.4	2543.3	2537.1	2521.4	2537.1	2543.3	2567.4	2606.8	2567.4
45.0	2448.5	2413.6	2394.3	2385.8	2371.9	2385.8	2394.3	2413.6	2448.5	2413.6
47.5	2289.8	2257.8	2243.7	2238.3	2223.4	2238.3	2243.7	2257.8	2289.8	2257.8
50.0	2131.2	2101.6	2094.7	2084.6	2068.2	2084.6	2094.7	2101.6	2131.2	2101.6
52.5	1973.4	1946.3	1940.8	1925.5	1914.5	1925.5	1940.8	1946.3	1973.4	1946.3
55.0	1826.6	1794.5	1790.9	1772.3	1761.7	1772.3	1790.9	1794.5	1826.6	1794.5
57.5	1657.8	1652.2	1634.5	1619.8	1610.9	1619.8	1634.5	1652.2	1657.8	1652.2
60.0	1499.0	1493.7	1482.0	1468.6	1460.6	1468.6	1482.0	1493.7	1499.0	1493.7
62.5	1349.1	1340.7	1332.6	1318.4	1312.2	1318.4	1332.6	1340.7	1349.1	1340.7
65.0	1208.8	1196.0	1186.7	1172.0	1167.5	1172.0	1186.7	1196.0	1208.8	1196.0
67.5	1044.2	1060.2	1036.8	1030.0	1029.1	1030.0	1036.8	1060.2	1044.2	1060.2
70.0	907.8	915.5	896.3	892.2	895.7	892.2	896.3	915.5	907.8	915.5
72.5	768.4	770.0	763.8	756.4	758.9	756.4	763.8	770.0	768.4	770.0
75.0	627.3	639.2	628.0	623.4	615.1	623.4	628.0	639.2	627.3	639.2
77.5	466.9	471.6	467.7	465.3	465.6	465.3	467.7	471.6	466.9	471.6
80.0	349.8	356.8	357.6	356.5	355.9	356.5	357.6	356.8	349.8	356.8
82.5	243.1	253.4	257.2	260.6	261.9	260.6	257.2	253.4	243.1	253.4
85.0	149.3	163.5	176.2	181.8	181.5	181.8	176.2	163.5	149.3	163.5
87.5	71.2	99.8	111.7	115.5	114.3	115.5	111.7	99.8	71.2	99.8
90.0	34.4	67.8	77.1	80.9	81.3	80.9	77.1	67.8	34.4	67.8
92.5	51.0	70.1	76.7	79.1	79.1	79.1	76.7	70.1	51.0	70.1
95.0	62.4	70.1	74.9	75.2	74.2	75.2	74.9	70.1	62.4	70.1
97.5	73.4	70.0	73.7	73.8	71.9	73.8	73.7	70.0	73.4	70.0
100.0	83.8	70.3	72.9	72.6	70.6	72.6	72.9	70.3	83.8	70.3
102.5	93.1	72.1	72.5	72.0	70.0	72.0	72.5	72.1	93.1	72.1
105.0	102.7	74.5	72.8	71.6	69.6	71.6	72.8	74.5	102.7	74.5
107.5	112.0	77.2	73.8	72.1	69.6	72.1	73.8	77.2	112.0	77.2
110.0	121.2	79.8	75.2	73.2	70.5	73.2	75.2	79.8	121.2	79.8
112.5	129.8	82.6	77.6	74.9	72.8	74.9	77.6	82.6	129.8	82.6
115.0	137.4	86.9	80.7	77.0	74.7	77.0	80.7	86.9	137.4	86.9
117.5	144.3	91.7	83.3	80.1	78.0	80.1	83.3	91.7	144.3	91.7
120.0	150.1	97.0	85.1	83.3	81.1	83.3	85.1	97.0	150.1	97.0
122.5	155.4	102.3	86.5	85.7	84.3	85.7	86.5	102.3	155.4	102.3
125.0	160.2	107.8	88.2	87.0	86.2	87.0	88.2	107.8	160.2	107.8
127.5	163.7	113.9	90.3	87.6	86.6	87.6	90.3	113.9	163.7	113.9
130.0	166.5	119.4	92.7	88.2	86.9	88.2	92.7	119.4	166.5	119.4
132.5	168.7	123.8	95.7	89.4	87.7	89.4	95.7	123.8	168.7	123.8

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CANDELA TABULATION - (Cont.)

135.0	169.8	130.7	99.0	90.8	89.4	90.8	99.0	130.7	169.8	130.7
137.5	169.3	137.8	103.2	92.8	90.9	92.8	103.2	137.8	169.3	137.8
140.0	168.6	144.9	106.8	95.4	92.8	95.4	106.8	144.9	168.6	144.9
142.5	167.5	151.4	110.4	98.9	95.8	98.9	110.4	151.4	167.5	151.4
145.0	165.6	156.8	114.1	103.4	100.1	103.4	114.1	156.8	165.6	156.8
147.5	162.8	160.2	117.8	106.3	104.6	106.3	117.8	160.2	162.8	160.2
150.0	159.4	160.6	121.0	108.9	107.0	108.9	121.0	160.6	159.4	160.6
152.5	155.4	159.0	126.5	112.0	109.5	112.0	126.5	159.0	155.4	159.0
155.0	151.7	155.7	132.7	114.5	111.7	114.5	132.7	155.7	151.7	155.7
157.5	148.2	152.1	140.1	118.8	114.8	118.8	140.1	152.1	148.2	152.1
160.0	145.0	148.5	146.0	124.3	120.2	124.3	146.0	148.5	145.0	148.5
162.5	141.8	144.4	146.8	134.4	127.3	134.4	146.8	144.4	141.8	144.4
165.0	137.6	139.6	142.8	139.9	135.2	139.9	142.8	139.6	137.6	139.6
167.5	133.3	134.9	137.0	138.0	136.4	138.0	137.0	134.9	133.3	134.9
170.0	129.2	130.3	131.9	132.2	131.5	132.2	131.9	130.3	129.2	130.3
172.5	126.6	127.4	127.8	126.7	125.7	126.7	127.8	127.4	126.6	127.4
175.0	124.9	124.8	124.3	122.6	121.1	122.6	124.3	124.8	124.9	124.8
177.5	123.8	123.7	121.9	119.8	118.9	119.8	121.9	123.7	123.8	123.7
180.0	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7

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	4164.8	4164.8	4164.8	4164.8	4164.8	4164.8	4164.8
2.5	4156.1	4172.0	4175.6	4172.0	4156.1	4146.6	4154.9
5.0	4144.7	4167.1	4167.5	4167.1	4144.7	4128.4	4136.2
7.5	4129.3	4127.1	4119.6	4127.1	4129.3	4100.8	4105.7
10.0	4074.4	4055.8	4048.9	4055.8	4074.4	4065.2	4064.3
12.5	3991.5	3976.7	3972.1	3976.7	3991.5	4020.8	4009.9
15.0	3908.4	3898.8	3894.6	3898.8	3908.4	3959.3	3944.6
17.5	3819.2	3808.8	3801.3	3808.8	3819.2	3874.8	3866.6
20.0	3722.2	3708.6	3700.3	3708.6	3722.2	3772.7	3780.1
22.5	3616.7	3600.3	3589.8	3600.3	3616.7	3659.1	3682.0
25.0	3501.8	3480.4	3468.9	3480.4	3501.8	3539.5	3573.6
27.5	3380.2	3357.9	3343.4	3357.9	3380.2	3415.3	3457.6
30.0	3249.6	3227.7	3216.5	3227.7	3249.6	3286.8	3332.7
32.5	3115.2	3095.2	3082.4	3095.2	3115.2	3153.8	3198.9
35.0	2976.7	2961.5	2948.8	2961.5	2976.7	3014.4	3058.7
37.5	2834.2	2823.6	2809.7	2823.6	2834.2	2869.6	2912.9
40.0	2690.1	2682.2	2668.7	2682.2	2690.1	2719.7	2762.1
42.5	2543.3	2537.1	2521.4	2537.1	2543.3	2567.4	2606.8
45.0	2394.3	2385.8	2371.9	2385.8	2394.3	2413.6	2448.5
47.5	2243.7	2238.3	2223.4	2238.3	2243.7	2257.8	2289.8
50.0	2094.7	2084.6	2068.2	2084.6	2094.7	2101.6	2131.2
52.5	1940.8	1925.5	1914.5	1925.5	1940.8	1946.3	1973.4
55.0	1790.9	1772.3	1761.7	1772.3	1790.9	1794.5	1826.6
57.5	1634.5	1619.8	1610.9	1619.8	1634.5	1652.2	1657.8
60.0	1482.0	1468.6	1460.6	1468.6	1482.0	1493.7	1499.0
62.5	1332.6	1318.4	1312.2	1318.4	1332.6	1340.7	1349.1
65.0	1186.7	1172.0	1167.5	1172.0	1186.7	1196.0	1208.8
67.5	1036.8	1030.0	1029.1	1030.0	1036.8	1060.2	1044.2
70.0	896.3	892.2	895.7	892.2	896.3	915.5	907.8
72.5	763.8	756.4	758.9	756.4	763.8	770.0	768.4
75.0	628.0	623.4	615.1	623.4	628.0	639.2	627.3
77.5	467.7	465.3	465.6	465.3	467.7	471.6	466.9
80.0	357.6	356.5	355.9	356.5	357.6	356.8	349.8

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CANDELA TABULATION - (Cont.)

82.5	257.2	260.6	261.9	260.6	257.2	253.4	243.1
85.0	176.2	181.8	181.5	181.8	176.2	163.5	149.3
87.5	111.7	115.5	114.3	115.5	111.7	99.8	71.2
90.0	77.1	80.9	81.3	80.9	77.1	67.8	34.4
92.5	76.7	79.1	79.1	79.1	76.7	70.1	51.0
95.0	74.9	75.2	74.2	75.2	74.9	70.1	62.4
97.5	73.7	73.8	71.9	73.8	73.7	70.0	73.4
100.0	72.9	72.6	70.6	72.6	72.9	70.3	83.8
102.5	72.5	72.0	70.0	72.0	72.5	72.1	93.1
105.0	72.8	71.6	69.6	71.6	72.8	74.5	102.7
107.5	73.8	72.1	69.6	72.1	73.8	77.2	112.0
110.0	75.2	73.2	70.5	73.2	75.2	79.8	121.2
112.5	77.6	74.9	72.8	74.9	77.6	82.6	129.8
115.0	80.7	77.0	74.7	77.0	80.7	86.9	137.4
117.5	83.3	80.1	78.0	80.1	83.3	91.7	144.3
120.0	85.1	83.3	81.1	83.3	85.1	97.0	150.1
122.5	86.5	85.7	84.3	85.7	86.5	102.3	155.4
125.0	88.2	87.0	86.2	87.0	88.2	107.8	160.2
127.5	90.3	87.6	86.6	87.6	90.3	113.9	163.7
130.0	92.7	88.2	86.9	88.2	92.7	119.4	166.5
132.5	95.7	89.4	87.7	89.4	95.7	123.8	168.7
135.0	99.0	90.8	89.4	90.8	99.0	130.7	169.8
137.5	103.2	92.8	90.9	92.8	103.2	137.8	169.3
140.0	106.8	95.4	92.8	95.4	106.8	144.9	168.6
142.5	110.4	98.9	95.8	98.9	110.4	151.4	167.5
145.0	114.1	103.4	100.1	103.4	114.1	156.8	165.6
147.5	117.8	106.3	104.6	106.3	117.8	160.2	162.8
150.0	121.0	108.9	107.0	108.9	121.0	160.6	159.4
152.5	126.5	112.0	109.5	112.0	126.5	159.0	155.4
155.0	132.7	114.5	111.7	114.5	132.7	155.7	151.7
157.5	140.1	118.8	114.8	118.8	140.1	152.1	148.2
160.0	146.0	124.3	120.2	124.3	146.0	148.5	145.0
162.5	146.8	134.4	127.3	134.4	146.8	144.4	141.8
165.0	142.8	139.9	135.2	139.9	142.8	139.6	137.6
167.5	137.0	138.0	136.4	138.0	137.0	134.9	133.3
170.0	131.9	132.2	131.5	132.2	131.9	130.3	129.2
172.5	127.8	126.7	125.7	126.7	127.8	127.4	126.6
175.0	124.3	122.6	121.1	122.6	124.3	124.8	124.9
177.5	121.9	119.8	118.9	119.8	121.9	123.7	123.8
180.0	120.7	120.7	120.7	120.7	120.7	120.7	120.7

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1497.67	N.A.	13.50
0-30	3114.13	N.A.	28.10
0-40	4982.98	N.A.	45.00
0-60	8434.06	N.A.	76.10
0-80	10264.54	N.A.	92.60
0-90	10467.63	N.A.	94.40
10-90	10074.35	N.A.	90.90
20-40	3485.31	N.A.	31.40
20-50	5337.87	N.A.	48.20
40-70	4625.76	N.A.	41.70
60-80	1830.48	N.A.	16.50
70-80	655.79	N.A.	5.90
80-90	203.10	N.A.	1.80
90-110	159.97	N.A.	1.40
90-120	247.09	N.A.	2.20
90-130	337.91	N.A.	3.00
90-150	504.17	N.A.	4.50
90-180	617.27	N.A.	5.60
110-180	457.31	N.A.	4.10
0-180	11084.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	393.28
10-20	1104.39
20-30	1616.46
30-40	1868.85
40-50	1852.56
50-60	1598.52
60-70	1174.69
70-80	655.79
80-90	203.10
90-100	78.96
100-110	81.01
110-120	87.12
120-130	90.82
130-140	87.16
140-150	79.09
150-160	61.95
160-170	39.11
170-180	12.05

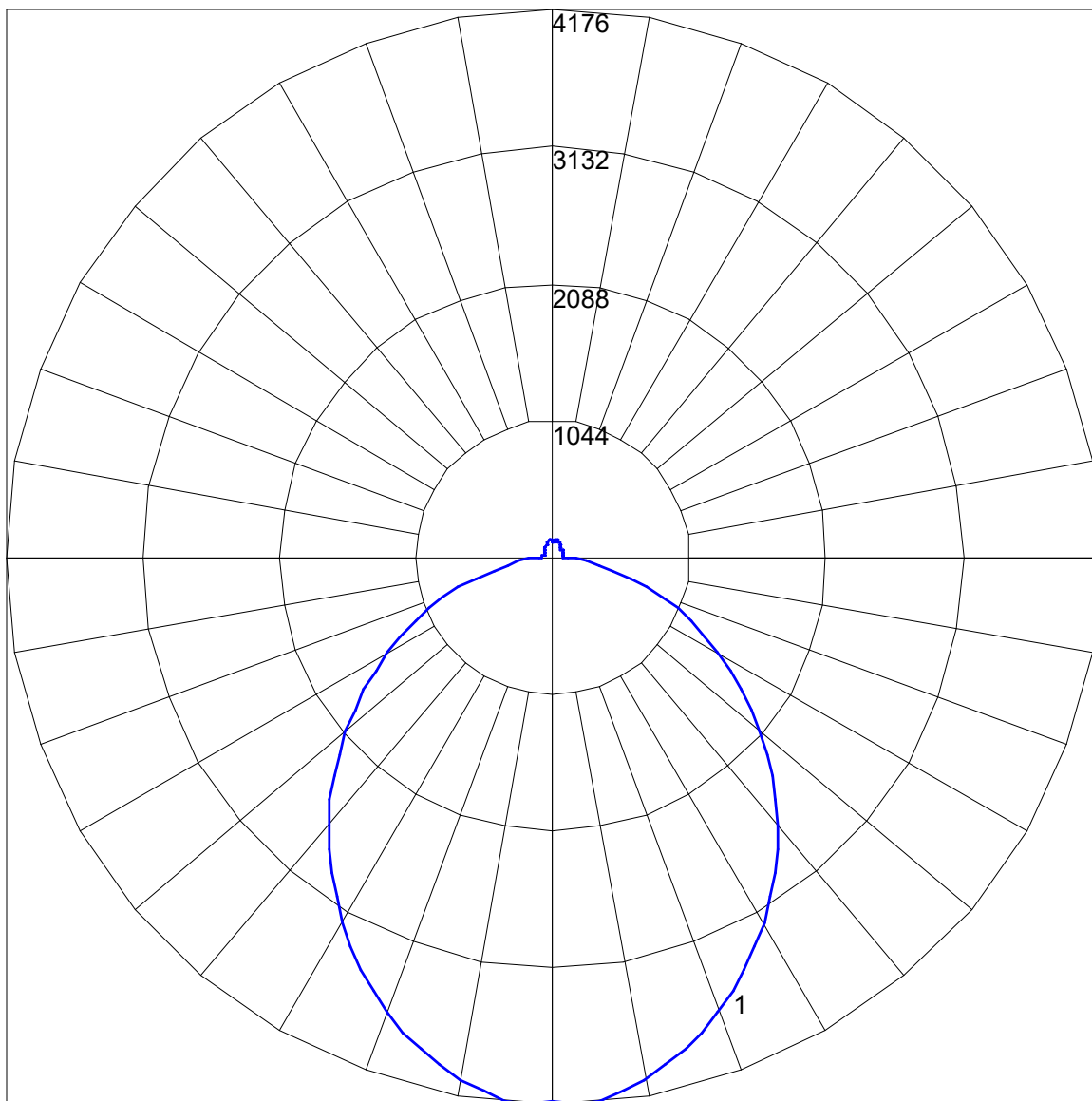
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	86	84	82	80
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	76	72	69	67
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61	67	63	59	57
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	63	55	48	73	62	54	48	59	52	47	57	50	46	54	49	45	42
6	70	57	48	42	68	56	48	42	54	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	43	37	49	42	36	47	41	36	45	39	35	33
8	61	47	39	33	59	47	39	33	45	38	33	43	37	32	42	36	32	30
9	57	44	36	30	55	43	35	30	41	34	29	40	34	29	38	33	29	27
10	53	40	33	27	52	40	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 4175.6 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)