

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FBY18L840-UNV-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] F39940.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUE DATE] 8/22/18
[MANUFAC] DAY-BRITE / CFI
[LUMCAT] FBY18L840-UNV-LFA
[LUMINAIRE] FBY CORE HIGHBAY
[MORE] 4-FORTIMO EDGE 96UP 4000K BOARDS 190W DRIVER @1290mA FROSTED ACRYLIC LENS
[LAMP] LED LUMINAIRE OUTPUT = 16889 LUMENS
[TEST DATE] 8/22/18
[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	16889
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	132.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.26
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	33487	32961	35257
55	31238	33073	30561
65	28162	28244	28228
75	24570	25322	25478
85	20473	23245	24062

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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	6520.5	6520.5	6520.5	6520.5	6520.5	6520.5	6520.5	6520.5	6520.5	6520.5
2.5	6488.5	6493.8	6520.0	6535.4	6530.8	6535.4	6520.0	6493.8	6488.5	6493.8
5.0	6461.6	6472.6	6497.8	6499.2	6494.3	6499.2	6497.8	6472.6	6461.6	6472.6
7.5	6416.4	6433.8	6448.4	6445.3	6444.1	6445.3	6448.4	6433.8	6416.4	6433.8
10.0	6353.2	6374.5	6360.9	6340.2	6333.6	6340.2	6360.9	6374.5	6353.2	6374.5
12.5	6271.5	6292.6	6246.8	6227.4	6221.3	6227.4	6246.8	6292.6	6271.5	6292.6
15.0	6172.8	6182.5	6125.6	6106.5	6097.7	6106.5	6125.6	6182.5	6172.8	6182.5
17.5	6055.7	6045.5	5990.2	5966.4	5951.3	5966.4	5990.2	6045.5	6055.7	6045.5
20.0	5922.4	5891.3	5711.4	5629.1	5617.7	5629.1	5711.4	5891.3	5922.4	5891.3
22.5	5591.3	5548.8	5500.4	5466.9	5452.1	5466.9	5500.4	5548.8	5591.3	5548.8
25.0	5254.0	5203.6	5151.3	5112.5	5098.9	5112.5	5151.3	5203.6	5254.0	5203.6
27.5	5087.7	5028.1	4973.7	4936.2	4916.9	4936.2	4973.7	5028.1	5087.7	5028.1
30.0	4906.6	4844.7	4783.2	4751.2	4737.0	4751.2	4783.2	4844.7	4906.6	4844.7
32.5	4712.7	4651.2	4589.2	4563.4	4557.9	4563.4	4589.2	4651.2	4712.7	4651.2
35.0	4510.7	4446.9	4391.4	4380.3	4396.9	4380.3	4391.4	4446.9	4510.7	4446.9
37.5	4301.3	4233.0	4186.2	4202.9	4238.5	4202.9	4186.2	4233.0	4301.3	4233.0
40.0	4085.0	4013.7	3975.9	4041.7	4114.2	4041.7	3975.9	4013.7	4085.0	4013.7
42.5	3859.2	3790.5	3767.0	3933.9	4004.3	3933.9	3767.0	3790.5	3859.2	3790.5
45.0	3626.8	3564.4	3569.8	3814.3	3818.4	3814.3	3569.8	3564.4	3626.8	3564.4
47.5	3394.0	3335.7	3391.3	3604.5	3564.5	3604.5	3391.3	3335.7	3394.0	3335.7
50.0	3167.8	3106.5	3259.6	3288.9	3194.3	3288.9	3259.6	3106.5	3167.8	3106.5
52.5	2959.6	2884.2	3128.6	2931.9	2902.1	2931.9	3128.6	2884.2	2959.6	2884.2
55.0	2744.3	2676.4	2905.5	2686.4	2684.8	2686.4	2905.5	2676.4	2744.3	2676.4
57.5	2482.8	2471.6	2565.1	2471.4	2470.6	2471.4	2565.1	2471.6	2482.8	2471.6
60.0	2243.7	2238.8	2255.6	2256.3	2255.8	2256.3	2255.6	2238.8	2243.7	2238.8
62.5	2039.3	2025.2	2042.6	2041.2	2041.7	2041.2	2042.6	2025.2	2039.3	2025.2
65.0	1822.9	1867.3	1828.2	1825.2	1827.2	1825.2	1828.2	1867.3	1822.9	1867.3
67.5	1579.8	1736.4	1611.0	1612.3	1618.7	1612.3	1611.0	1736.4	1579.8	1736.4
70.0	1396.8	1501.4	1404.4	1406.7	1415.8	1406.7	1404.4	1501.4	1396.8	1501.4
72.5	1182.5	1202.6	1200.2	1203.4	1212.4	1203.4	1200.2	1202.6	1182.5	1202.6
75.0	974.0	1005.7	1003.8	1002.4	1010.0	1002.4	1003.8	1005.7	974.0	1005.7
77.5	784.3	812.5	812.7	803.5	806.7	803.5	812.7	812.5	784.3	812.5
80.0	598.2	623.6	630.0	619.3	625.6	619.3	630.0	623.6	598.2	623.6
82.5	423.5	456.6	456.7	456.0	462.6	456.0	456.7	456.6	423.5	456.6
85.0	273.3	304.7	310.3	315.9	321.2	315.9	310.3	304.7	273.3	304.7
87.5	153.5	185.1	201.4	212.1	223.5	212.1	201.4	185.1	153.5	201.4
90.0	67.9	112.5	122.6	134.2	145.2	134.2	122.6	112.5	67.9	122.6
92.5	74.5	93.7	89.7	89.9	89.4	89.9	89.7	93.7	74.5	93.7
95.0	93.6	95.3	89.0	85.5	84.1	85.5	89.0	95.3	93.6	95.3
97.5	110.0	95.8	89.0	84.6	82.3	84.6	89.0	95.8	110.0	95.8
100.0	123.6	97.0	89.1	83.9	81.4	83.9	89.1	97.0	123.6	97.0
102.5	135.8	99.6	90.0	84.2	81.0	84.2	90.0	99.6	135.8	99.6
105.0	149.0	104.0	91.0	85.2	81.9	85.2	91.0	104.0	149.0	104.0
107.5	162.1	108.8	92.6	87.4	83.1	87.4	92.6	108.8	162.1	108.8
110.0	175.4	114.2	95.4	89.3	85.3	89.3	95.4	114.2	175.4	114.2
112.5	188.2	119.6	99.0	92.2	88.2	92.2	99.0	119.6	188.2	119.6
115.0	199.6	126.8	102.7	95.4	91.8	95.4	102.7	126.8	199.6	126.8
117.5	210.6	135.2	106.3	100.0	95.5	100.0	106.3	135.2	210.6	135.2
120.0	220.9	143.1	110.0	103.7	100.1	103.7	110.0	143.1	220.9	143.1
122.5	229.5	151.6	113.3	106.5	103.5	106.5	113.3	151.6	229.5	151.6
125.0	237.6	161.6	118.1	108.7	105.3	108.7	118.1	161.6	237.6	161.6
127.5	244.3	171.1	123.5	110.7	106.6	110.7	123.5	171.1	244.3	171.1
130.0	249.3	181.7	130.1	113.0	107.9	113.0	130.1	181.7	249.3	181.7
132.5	253.9	193.6	137.2	116.9	110.9	116.9	137.2	193.6	253.9	193.6

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135.0	256.5	204.1	144.5	121.7	115.1	121.7	144.5	204.1	256.5	204.1
137.5	256.0	214.3	151.9	127.7	120.5	127.7	151.9	214.3	256.0	214.3
140.0	255.1	225.4	158.3	134.6	126.9	134.6	158.3	225.4	255.1	225.4
142.5	253.9	234.9	165.0	142.3	134.7	142.3	165.0	234.9	253.9	234.9
145.0	251.3	241.1	171.4	150.0	143.0	150.0	171.4	241.1	251.3	241.1
147.5	246.8	245.0	178.8	156.3	150.6	156.3	178.8	245.0	246.8	245.0
150.0	241.9	244.6	186.2	162.6	157.1	162.6	186.2	244.6	241.9	244.6
152.5	236.0	241.7	194.2	168.6	163.2	168.6	194.2	241.7	236.0	241.7
155.0	230.5	237.4	202.4	174.7	169.2	174.7	202.4	237.4	230.5	237.4
157.5	225.3	232.6	215.9	180.4	174.1	180.4	215.9	232.6	225.3	232.6
160.0	220.4	227.5	225.4	188.4	180.7	188.4	225.4	227.5	220.4	227.5
162.5	215.2	220.9	226.7	203.2	193.3	203.2	226.7	220.9	215.2	220.9
165.0	208.7	213.3	221.1	214.7	206.1	214.7	221.1	213.3	208.7	213.3
167.5	202.4	206.6	213.7	214.3	210.0	214.3	213.7	206.6	202.4	206.6
170.0	196.7	200.5	205.6	207.2	204.1	207.2	205.6	200.5	196.7	200.5
172.5	192.4	195.9	197.8	198.9	195.0	198.9	197.8	195.9	192.4	195.9
175.0	189.6	191.9	192.5	192.3	188.4	192.3	192.5	191.9	189.6	191.9
177.5	187.8	188.6	188.0	186.7	184.3	186.7	188.0	188.6	187.8	188.6
180.0	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9	184.9

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	6520.5	6520.5	6520.5	6520.5	6520.5	6520.5	6520.5
2.5	6520.0	6535.4	6530.8	6535.4	6520.0	6493.8	6488.5
5.0	6497.8	6499.2	6494.3	6499.2	6497.8	6472.6	6461.6
7.5	6448.4	6445.3	6444.1	6445.3	6448.4	6433.8	6416.4
10.0	6360.9	6340.2	6333.6	6340.2	6360.9	6374.5	6353.2
12.5	6246.8	6227.4	6221.3	6227.4	6246.8	6292.6	6271.5
15.0	6125.6	6106.5	6097.7	6106.5	6125.6	6182.5	6172.8
17.5	5990.2	5966.4	5951.3	5966.4	5990.2	6045.5	6055.7
20.0	5711.4	5629.1	5617.7	5629.1	5711.4	5891.3	5922.4
22.5	5500.4	5466.9	5452.1	5466.9	5500.4	5548.8	5591.3
25.0	5151.3	5112.5	5098.9	5112.5	5151.3	5203.6	5254.0
27.5	4973.7	4936.2	4916.9	4936.2	4973.7	5028.1	5087.7
30.0	4783.2	4751.2	4737.0	4751.2	4783.2	4844.7	4906.6
32.5	4589.2	4563.4	4557.9	4563.4	4589.2	4651.2	4712.7
35.0	4391.4	4380.3	4396.9	4380.3	4391.4	4446.9	4510.7
37.5	4186.2	4202.9	4238.5	4202.9	4186.2	4233.0	4301.3
40.0	3975.9	4041.7	4114.2	4041.7	3975.9	4013.7	4085.0
42.5	3767.0	3933.9	4004.3	3933.9	3767.0	3790.5	3859.2
45.0	3569.8	3814.3	3818.4	3814.3	3569.8	3564.4	3626.8
47.5	3391.3	3604.5	3564.5	3604.5	3391.3	3335.7	3394.0
50.0	3259.6	3288.9	3194.3	3288.9	3259.6	3106.5	3167.8
52.5	3128.6	2931.9	2902.1	2931.9	3128.6	2884.2	2959.6
55.0	2905.5	2686.4	2684.8	2686.4	2905.5	2676.4	2744.3
57.5	2565.1	2471.4	2470.6	2471.4	2565.1	2471.6	2482.8
60.0	2255.6	2256.3	2255.8	2256.3	2255.6	2238.8	2243.7
62.5	2042.6	2041.2	2041.7	2041.2	2042.6	2025.2	2039.3
65.0	1828.2	1825.2	1827.2	1825.2	1828.2	1867.3	1822.9
67.5	1611.0	1612.3	1618.7	1612.3	1611.0	1736.4	1579.8
70.0	1404.4	1406.7	1415.8	1406.7	1404.4	1501.4	1396.8
72.5	1200.2	1203.4	1212.4	1203.4	1200.2	1202.6	1182.5
75.0	1003.8	1002.4	1010.0	1002.4	1003.8	1005.7	974.0
77.5	812.7	803.5	806.7	803.5	812.7	812.5	784.3
80.0	630.0	619.3	625.6	619.3	630.0	623.6	598.2

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CANDELA TABULATION - (Cont.)

82.5	456.7	456.0	462.6	456.0	456.7	456.6	423.5
85.0	310.3	315.9	321.2	315.9	310.3	304.7	273.3
87.5	201.4	212.1	223.5	212.1	201.4	185.1	153.5
90.0	122.6	134.2	145.2	134.2	122.6	112.5	67.9
92.5	89.7	89.9	89.4	89.9	89.7	93.7	74.5
95.0	89.0	85.5	84.1	85.5	89.0	95.3	93.6
97.5	89.0	84.6	82.3	84.6	89.0	95.8	110.0
100.0	89.1	83.9	81.4	83.9	89.1	97.0	123.6
102.5	90.0	84.2	81.0	84.2	90.0	99.6	135.8
105.0	91.0	85.2	81.9	85.2	91.0	104.0	149.0
107.5	92.6	87.4	83.1	87.4	92.6	108.8	162.1
110.0	95.4	89.3	85.3	89.3	95.4	114.2	175.4
112.5	99.0	92.2	88.2	92.2	99.0	119.6	188.2
115.0	102.7	95.4	91.8	95.4	102.7	126.8	199.6
117.5	106.3	100.0	95.5	100.0	106.3	135.2	210.6
120.0	110.0	103.7	100.1	103.7	110.0	143.1	220.9
122.5	113.3	106.5	103.5	106.5	113.3	151.6	229.5
125.0	118.1	108.7	105.3	108.7	118.1	161.6	237.6
127.5	123.5	110.7	106.6	110.7	123.5	171.1	244.3
130.0	130.1	113.0	107.9	113.0	130.1	181.7	249.3
132.5	137.2	116.9	110.9	116.9	137.2	193.6	253.9
135.0	144.5	121.7	115.1	121.7	144.5	204.1	256.5
137.5	151.9	127.7	120.5	127.7	151.9	214.3	256.0
140.0	158.3	134.6	126.9	134.6	158.3	225.4	255.1
142.5	165.0	142.3	134.7	142.3	165.0	234.9	253.9
145.0	171.4	150.0	143.0	150.0	171.4	241.1	251.3
147.5	178.8	156.3	150.6	156.3	178.8	245.0	246.8
150.0	186.2	162.6	157.1	162.6	186.2	244.6	241.9
152.5	194.2	168.6	163.2	168.6	194.2	241.7	236.0
155.0	202.4	174.7	169.2	174.7	202.4	237.4	230.5
157.5	215.9	180.4	174.1	180.4	215.9	232.6	225.3
160.0	225.4	188.4	180.7	188.4	225.4	227.5	220.4
162.5	226.7	203.2	193.3	203.2	226.7	220.9	215.2
165.0	221.1	214.7	206.1	214.7	221.1	213.3	208.7
167.5	213.7	214.3	210.0	214.3	213.7	206.6	202.4
170.0	205.6	207.2	204.1	207.2	205.6	200.5	196.7
172.5	197.8	198.9	195.0	198.9	197.8	195.9	192.4
175.0	192.5	192.3	188.4	192.3	192.5	191.9	189.6
177.5	188.0	186.7	184.3	186.7	188.0	188.6	187.8
180.0	184.9	184.9	184.9	184.9	184.9	184.9	184.9

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2339.38	N.A.	13.90
0-30	4748.00	N.A.	28.10
0-40	7513.23	N.A.	44.50
0-60	12776.42	N.A.	75.60
0-80	15659.73	N.A.	92.70
0-90	16021.01	N.A.	94.90
10-90	15405.82	N.A.	91.20
20-40	5173.85	N.A.	30.60
20-50	7991.4	N.A.	47.30
40-70	7082.87	N.A.	41.90
60-80	2883.31	N.A.	17.10
70-80	1063.64	N.A.	6.30
80-90	361.28	N.A.	2.10
90-110	207.63	N.A.	1.20
90-120	324.58	N.A.	1.90
90-130	449.94	N.A.	2.70
90-150	695.25	N.A.	4.10
90-180	868.15	N.A.	5.10
110-180	660.52	N.A.	3.90
0-180	16889.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	615.19
10-20	1724.18
20-30	2408.62
30-40	2765.23
40-50	2817.55
50-60	2445.65
60-70	1819.67
70-80	1063.64
80-90	361.28
90-100	102.55
100-110	105.08
110-120	116.95
120-130	125.35
130-140	126.77
140-150	118.55
150-160	94.27
160-170	59.99
170-180	18.64

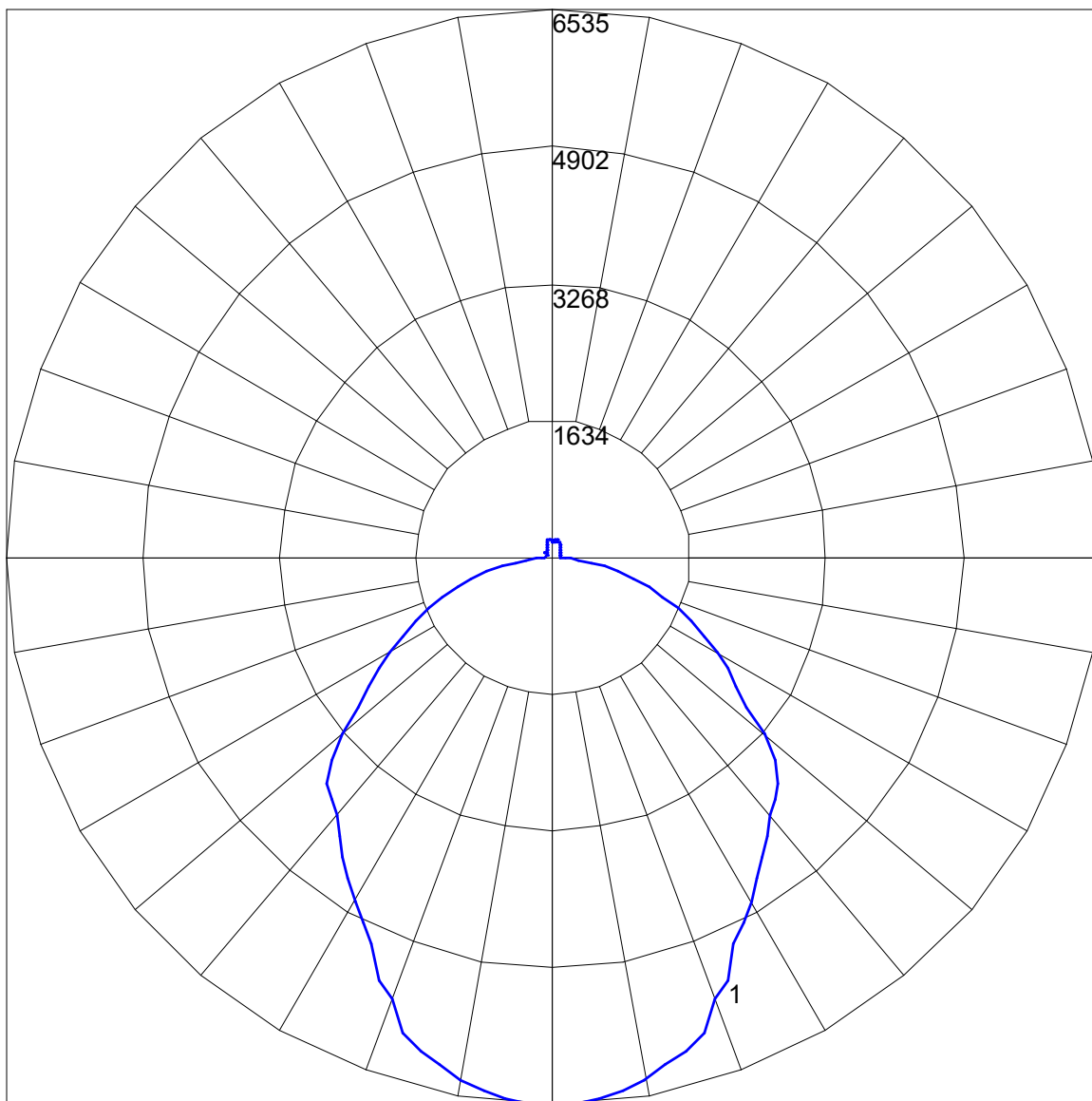
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	97	97	97	95
1	108	103	99	95	104	100	96	93	95	92	89	90	88	85	86	84	82	80
2	98	90	83	78	95	88	82	76	83	78	74	79	75	71	76	72	69	67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	70	62	55	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42
6	70	57	48	42	68	56	47	42	53	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	43	37	49	41	36	47	40	36	45	39	35	33
8	61	47	39	33	59	46	38	33	45	38	32	43	37	32	42	36	31	30
9	57	44	35	30	55	43	35	30	41	34	29	40	33	29	38	33	29	27
10	53	40	32	27	52	40	32	27	38	31	27	37	31	26	36	30	26	24

POLAR GRAPH



Maximum Candela = 6535.4 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)