

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FBX24LL40-UNV-M-LPA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] FO32705.PSO
[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 4/29/14
[MANUFAC] SIGNIFY DAY-BRITE - CFI
[LUMCAT] FBX24LL40-UNV-M-LPA
[LUMINAIRE] FBX HIGHBAY
[MORE] 4-2LP1.0 4000K BOARDS 95W DRIVER NO RESISTOR MEDIUM OPTICS PRISMATIC LENS
[LAMP] LED. LUMINAIRE OUTPUT = 21084 LMS
[TESTDATE] 4/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	196.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.08
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.85 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14325	15972	14528
55	8749	8813	8467
65	6645	6137	7969
75	7017	6733	9974
85	9041	6980	10667

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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	13915.54	13915.54	13915.54	13915.54	13915.54	13915.54	13915.54	13915.54	13915.54	13915.54
2.5	13931.22	13915.76	13886.87	13846.82	13867.51	13846.82	13886.87	13915.76	13931.22	13915.76
5.0	13884.37	13874.99	13793.76	13759.87	13777.05	13759.87	13793.76	13874.99	13884.37	13874.99
7.5	13834.51	13765.50	13716.31	13713.40	13736.55	13713.40	13716.31	13765.50	13834.51	13765.50
10.0	13708.96	13638.54	13653.46	13749.95	13776.18	13749.95	13653.46	13638.54	13708.96	13638.54
12.5	13549.25	13512.58	13586.80	13663.92	13694.64	13663.92	13586.80	13512.58	13549.25	13512.58
15.0	13293.26	13268.57	13453.74	13477.56	13441.41	13477.56	13453.74	13268.57	13293.26	13268.57
17.5	12906.60	12931.76	13179.90	13143.34	13126.71	13143.34	13179.90	12931.76	12906.60	12931.76
20.0	12382.75	12499.83	12742.98	12764.06	12780.50	12764.06	12742.98	12499.83	12382.75	12499.83
22.5	11753.63	11939.07	12170.52	12283.34	12277.98	12283.34	12170.52	11939.07	11753.63	11939.07
25.0	10979.25	11234.14	11502.22	11585.41	11550.97	11585.41	11502.22	11234.14	10979.25	11234.14
27.5	10100.13	10379.70	10650.69	10709.95	10683.87	10709.95	10650.69	10379.70	10100.13	10379.70
30.0	9117.96	9420.76	9684.08	9675.99	9653.60	9675.99	9684.08	9420.76	9117.96	9420.76
32.5	8072.27	8426.19	8659.99	8584.71	8545.44	8584.71	8659.99	8426.19	8072.27	8426.19
35.0	6936.74	7374.33	7613.76	7451.93	7369.12	7451.93	7613.76	7374.33	6936.74	7374.33
37.5	5859.69	6302.45	6548.04	6336.81	6223.51	6336.81	6548.04	6302.45	5859.69	6302.45
40.0	4898.66	5286.91	5526.61	5242.76	5153.54	5242.76	5526.61	5286.91	4898.66	5286.91
42.5	4062.97	4361.30	4569.87	4300.16	4187.16	4300.16	4569.87	4361.30	4062.97	4361.30
45.0	3345.72	3574.37	3730.46	3488.65	3393.10	3488.65	3730.46	3574.37	3345.72	3574.37
47.5	2788.33	2917.23	3051.41	2856.46	2768.25	2856.46	3051.41	2917.23	2788.33	2917.23
50.0	2336.26	2390.93	2484.15	2340.46	2283.32	2340.46	2484.15	2390.93	2336.26	2390.93
52.5	1970.46	1980.60	2037.60	1931.39	1886.79	1931.39	2037.60	1980.60	1970.46	1980.60
55.0	1657.58	1633.35	1669.61	1637.17	1604.06	1637.17	1669.61	1633.35	1657.58	1633.35
57.5	1399.24	1376.10	1381.23	1387.52	1400.57	1387.52	1381.23	1376.10	1399.24	1376.10
60.0	1222.44	1167.47	1171.75	1243.65	1264.40	1243.65	1171.75	1167.47	1222.44	1167.47
62.5	1052.76	994.84	980.73	1109.22	1166.17	1109.22	980.73	994.84	1052.76	994.84
65.0	927.58	877.83	856.63	1027.40	1112.47	1027.40	856.63	877.83	927.58	877.83
67.5	826.48	787.89	759.99	956.89	1049.74	956.89	759.99	787.89	826.48	787.89
70.0	749.70	704.15	693.44	896.14	1018.95	896.14	693.44	704.15	749.70	704.15
72.5	684.63	647.81	629.99	822.00	930.72	822.00	629.99	647.81	684.63	647.81
75.0	599.88	577.69	575.60	743.19	852.66	743.19	575.60	577.69	599.88	577.69
77.5	552.90	514.61	509.10	654.93	747.11	654.93	509.10	514.61	552.90	514.61
80.0	478.17	446.23	417.50	567.22	649.33	567.22	417.50	446.23	478.17	446.23
82.5	381.22	356.94	316.72	451.72	498.83	451.72	316.72	356.94	381.22	356.94
85.0	260.26	255.08	200.93	310.56	307.08	310.56	200.93	255.08	260.26	255.08
87.5	112.51	129.20	81.86	123.79	141.87	123.79	81.86	129.20	112.51	129.20
90.0	9.52	16.69	0.00	10.91	35.18	10.91	0.00	16.69	9.52	16.69
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	13915.54	13915.54	13915.54	13915.54	13915.54	13915.54	13915.54
2.5	13886.87	13846.82	13867.51	13846.82	13886.87	13915.76	13931.22
5.0	13793.76	13759.87	13777.05	13759.87	13793.76	13874.99	13884.37
7.5	13716.31	13713.40	13736.55	13713.40	13716.31	13765.50	13834.51
10.0	13653.46	13749.95	13776.18	13749.95	13653.46	13638.54	13708.96
12.5	13586.80	13663.92	13694.64	13663.92	13586.80	13512.58	13549.25
15.0	13453.74	13477.56	13441.41	13477.56	13453.74	13268.57	13293.26
17.5	13179.90	13143.34	13126.71	13143.34	13179.90	12931.76	12906.60
20.0	12742.98	12764.06	12780.50	12764.06	12742.98	12499.83	12382.75
22.5	12170.52	12283.34	12277.98	12283.34	12170.52	11939.07	11753.63
25.0	11502.22	11585.41	11550.97	11585.41	11502.22	11234.14	10979.25
27.5	10650.69	10709.95	10683.87	10709.95	10650.69	10379.70	10100.13
30.0	9684.08	9675.99	9653.60	9675.99	9684.08	9420.76	9117.96
32.5	8659.99	8584.71	8545.44	8584.71	8659.99	8426.19	8072.27
35.0	7613.76	7451.93	7369.12	7451.93	7613.76	7374.33	6936.74
37.5	6548.04	6336.81	6223.51	6336.81	6548.04	6302.45	5859.69
40.0	5526.61	5242.76	5153.54	5242.76	5526.61	5286.91	4898.66
42.5	4569.87	4300.16	4187.16	4300.16	4569.87	4361.30	4062.97
45.0	3730.46	3488.65	3393.10	3488.65	3730.46	3574.37	3345.72
47.5	3051.41	2856.46	2768.25	2856.46	3051.41	2917.23	2788.33
50.0	2484.15	2340.46	2283.32	2340.46	2484.15	2390.93	2336.26
52.5	2037.60	1931.39	1886.79	1931.39	2037.60	1980.60	1970.46
55.0	1669.61	1637.17	1604.06	1637.17	1669.61	1633.35	1657.58
57.5	1381.23	1387.52	1400.57	1387.52	1381.23	1376.10	1399.24
60.0	1171.75	1243.65	1264.40	1243.65	1171.75	1167.47	1222.44
62.5	980.73	1109.22	1166.17	1109.22	980.73	994.84	1052.76
65.0	856.63	1027.40	1112.47	1027.40	856.63	877.83	927.58
67.5	759.99	956.89	1049.74	956.89	759.99	787.89	826.48
70.0	693.44	896.14	1018.95	896.14	693.44	704.15	749.70
72.5	629.99	822.00	930.72	822.00	629.99	647.81	684.63
75.0	575.60	743.19	852.66	743.19	575.60	577.69	599.88
77.5	509.10	654.93	747.11	654.93	509.10	514.61	552.90
80.0	417.50	567.22	649.33	567.22	417.50	446.23	478.17

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82.5	316.72	451.72	498.83	451.72	316.72	356.94	381.22
85.0	200.93	310.56	307.08	310.56	200.93	255.08	260.26
87.5	81.86	123.79	141.87	123.79	81.86	129.20	112.51
90.0	0.00	10.91	35.18	10.91	0.00	16.69	9.52
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	5071.8	N.A.	24.10
0-30	10251.46	N.A.	48.60
0-40	14848.36	N.A.	70.40
0-60	19159.25	N.A.	90.90
0-80	20802.94	N.A.	98.70
0-90	21081.86	N.A.	100.00
10-90	19766.96	N.A.	93.80
20-40	9776.56	N.A.	46.40
20-50	12574.05	N.A.	59.60
40-70	5265.07	N.A.	25.00
60-80	1643.69	N.A.	7.80
70-80	689.50	N.A.	3.30
80-90	278.92	N.A.	1.30
90-110	1.71	N.A.	0.00
90-120	1.71	N.A.	0.00
90-130	1.71	N.A.	0.00
90-150	1.71	N.A.	0.00
90-180	1.71	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	21083.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1314.9
10-20	3756.9
20-30	5179.65
30-40	4596.91
40-50	2797.48
50-60	1513.4
60-70	954.19
70-80	689.50
80-90	278.92
90-100	1.71
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

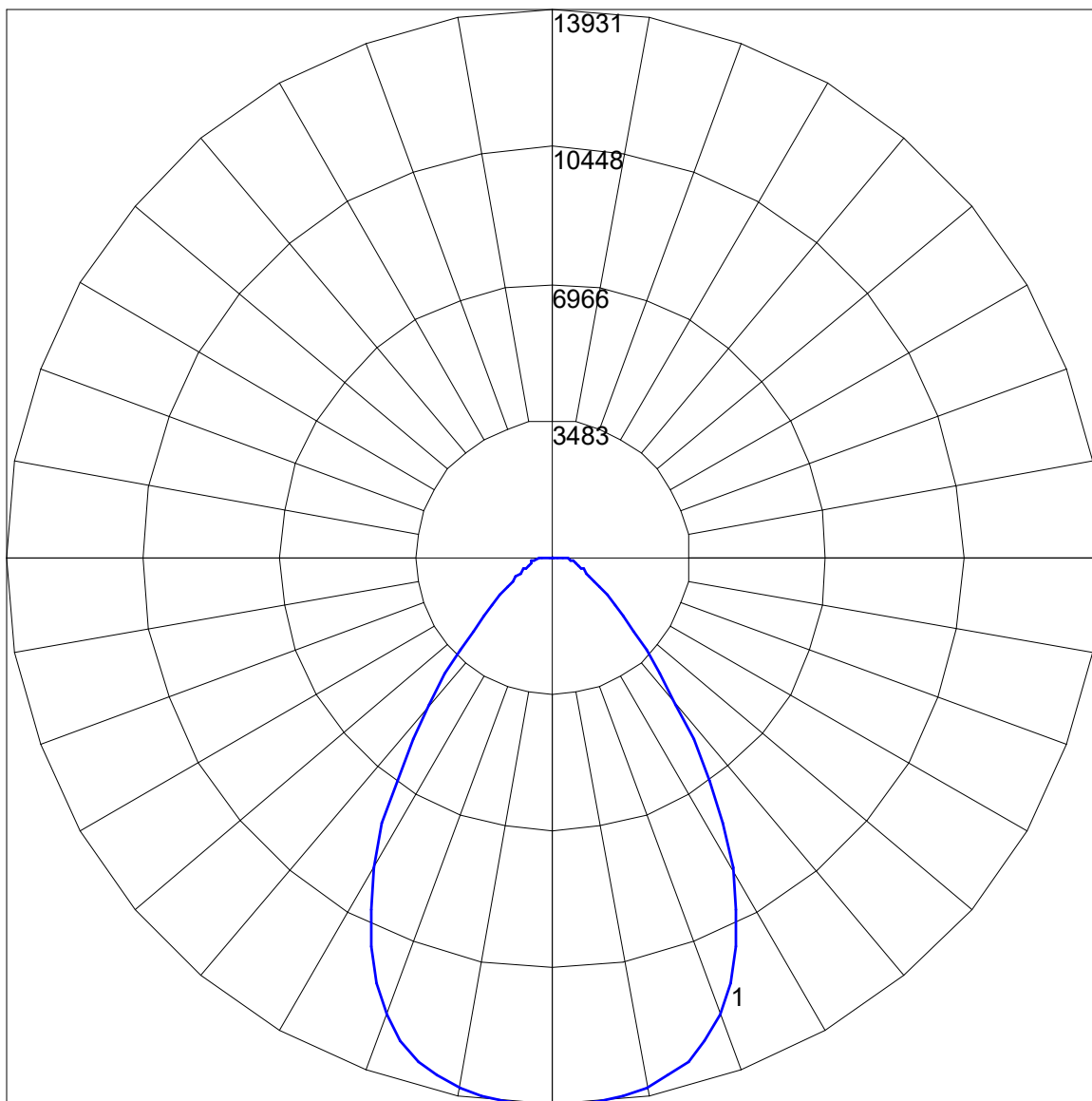
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	61	55	77	67	60	55	66	59	55	64	58	54	63	58	54	52
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

POLAR GRAPH



Maximum Candela = 13931.22 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)