

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSI8140L835-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO43936P6.PSO

[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUE DATE] 7/20/2022

[MANUFAC] DAY-BRITE CFI by SIGNIFY

[LUMCAT] FSI8140L835-UNV-DIM

[LUMINAIRE] 8' FLUXSTREAM INDUSTRIAL 4-FLS VO+TvS LV2E 835 BOARDS, 2xXI050C140V054BST1 1168mA 277V, FSI D

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13675
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	105.5
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.50 ft
Luminous Width (90-270)	0.35 ft
Luminous Height	0.10 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15106	12974	12452
55	14490	11784	11299
65	13387	10240	9878
75	11144	8079	8009
85	5840	5372	5981

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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>
0.0	3994.917	3994.917	3994.917	3994.917	3994.917
2.5	3934.896	3978.443	3993.182	4007.950	4027.470
5.0	3922.653	3963.548	3981.260	3997.273	4014.101
7.5	3899.762	3941.804	3959.837	3975.683	3993.872
10.0	3870.566	3911.830	3928.502	3945.642	3967.172
12.5	3830.992	3871.634	3889.862	3909.974	3929.649
15.0	3782.937	3822.510	3844.517	3860.782	3881.156
17.5	3726.292	3766.915	3786.658	3804.244	3824.862
20.0	3681.297	3699.389	3720.725	3739.477	3764.224
22.5	3614.237	3651.314	3670.124	3681.793	3697.028
25.0	3532.652	3569.573	3594.475	3613.509	3634.427
27.5	3443.352	3480.555	3504.874	3526.171	3547.051
30.0	3347.834	3383.307	3411.153	3431.799	3452.738
32.5	3246.486	3279.131	3310.932	3333.104	3348.174
35.0	3137.734	3170.681	3201.967	3223.002	3242.424
37.5	3021.491	3054.749	3084.743	3109.907	3130.282
40.0	2899.652	2933.105	2965.168	2992.946	3011.610
42.5	2773.684	2804.902	2842.095	2869.552	2889.179
45.0	2642.061	2674.658	2712.969	2743.059	2763.259
47.5	2505.852	2539.129	2577.236	2612.903	2633.997
50.0	2364.629	2398.082	2438.870	2477.675	2500.819
52.5	2219.151	2252.196	2295.869	2340.893	2366.077
55.0	2067.358	2100.849	2148.098	2201.410	2227.565
57.5	1909.762	1946.350	1997.684	2058.147	2084.895
60.0	1749.568	1787.798	1845.479	1913.124	1939.339
62.5	1586.708	1625.486	1691.073	1764.591	1790.987
65.0	1420.486	1459.639	1535.459	1613.549	1643.412
67.5	1251.462	1292.149	1378.614	1460.665	1492.548
70.0	1080.685	1123.544	1220.427	1308.180	1342.134
72.5	909.471	956.335	1065.104	1158.108	1191.914
75.0	739.056	792.770	913.220	1010.710	1045.560
77.5	572.389	634.855	766.432	866.940	903.474
80.0	413.907	487.648	626.239	731.982	769.795
82.5	267.892	353.533	498.928	609.096	649.035
85.0	143.181	239.077	390.491	501.963	542.802
87.5	50.294	154.868	307.744	418.273	457.821
90.0	5.484	114.076	258.715	363.673	400.324
92.5	8.158	110.656	240.996	337.008	370.983
95.0	17.911	118.162	240.260	329.906	361.804
97.5	31.052	127.999	246.140	330.753	361.120
100.0	44.515	138.143	254.441	336.064	365.531
102.5	57.002	147.983	263.219	343.714	372.371
105.0	68.852	157.736	271.499	351.361	379.444
107.5	80.637	166.972	279.491	358.178	386.307
110.0	92.147	174.572	287.099	363.978	392.017
112.5	103.287	177.290	293.502	369.621	397.129
115.0	113.728	173.882	297.932	373.892	400.744
117.5	123.609	168.542	298.634	377.746	404.028
120.0	132.888	163.532	297.322	381.484	406.952
122.5	141.897	159.337	294.427	383.985	408.392
125.0	150.478	158.012	290.776	386.039	408.981
127.5	158.517	161.090	284.586	386.189	409.379
130.0	165.973	164.527	272.309	381.407	407.968
132.5	176.297	172.090	258.582	373.092	406.060

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CANDELA TABULATION - (Cont.)

135.0	191.573	182.852	244.725	360.733	403.825
137.5	207.667	196.260	232.170	339.542	396.816
140.0	223.473	211.514	221.557	315.447	380.966
142.5	239.057	227.866	215.276	290.919	361.155
145.0	254.513	244.199	217.221	268.102	341.734
147.5	269.668	260.611	221.712	247.803	323.361
150.0	284.184	276.711	229.512	233.008	306.432
152.5	298.329	292.157	241.519	225.591	295.569
155.0	312.324	306.846	258.410	223.222	289.334
157.5	325.808	320.283	278.489	226.518	283.770
160.0	338.063	333.272	298.710	239.158	281.843
162.5	349.696	345.992	317.555	256.120	285.630
165.0	359.740	357.888	334.393	272.927	267.486
167.5	368.593	367.923	349.604	290.066	227.351
170.0	375.422	377.410	362.577	306.856	194.632
172.5	382.046	386.306	374.835	321.055	189.020
175.0	388.103	393.802	384.549	333.827	193.709
177.5	390.029	397.943	390.987	342.789	197.101
180.0	358.108	358.108	358.108	358.108	358.108

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1461.77	N.A.	10.70
0-30	3114.55	N.A.	22.80
0-40	5114.16	N.A.	37.40
0-60	9124.3	N.A.	66.70
0-80	11598.92	N.A.	84.80
0-90	12022.43	N.A.	87.90
10-90	11644.39	N.A.	85.10
20-40	3652.38	N.A.	26.70
20-50	5741.6	N.A.	42.00
40-70	5528.65	N.A.	40.40
60-80	2474.62	N.A.	18.10
70-80	956.11	N.A.	7.00
80-90	423.51	N.A.	3.10
90-110	510.28	N.A.	3.70
90-120	782.71	N.A.	5.70
90-130	1032.35	N.A.	7.50
90-150	1404.28	N.A.	10.30
90-180	1652.92	N.A.	12.10
110-180	1142.63	N.A.	8.40
0-180	13675.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	378.04
10-20	1083.73
20-30	1652.78
30-40	1999.61
40-50	2089.22
50-60	1920.93
60-70	1518.51
70-80	956.11
80-90	423.51
90-100	245.07
100-110	265.22
110-120	272.43
120-130	249.64
130-140	209.68
140-150	162.24
150-160	126.31
160-170	89.45
170-180	32.88

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	105	100	96	92	101	97	93	89	90	87	84	84	82	79	79	77	75	72
2	95	87	80	74	92	84	78	72	79	73	69	73	69	65	69	65	62	59
3	87	76	68	61	83	74	66	60	69	63	57	65	59	55	60	56	52	50
4	79	67	58	52	76	65	57	51	61	54	49	57	51	47	54	49	45	42
5	73	60	51	44	70	58	50	43	55	47	42	51	45	40	48	43	39	36
6	67	54	45	38	64	52	44	38	49	42	37	46	40	35	44	38	34	32
7	62	49	40	34	60	47	39	33	45	37	32	42	36	31	40	34	30	28
8	58	44	36	30	56	43	35	30	41	34	29	39	32	28	37	31	27	25
9	54	41	32	27	52	40	32	27	38	31	26	36	29	25	34	28	24	22
10	51	37	30	24	49	36	29	24	35	28	23	33	27	23	31	26	22	20

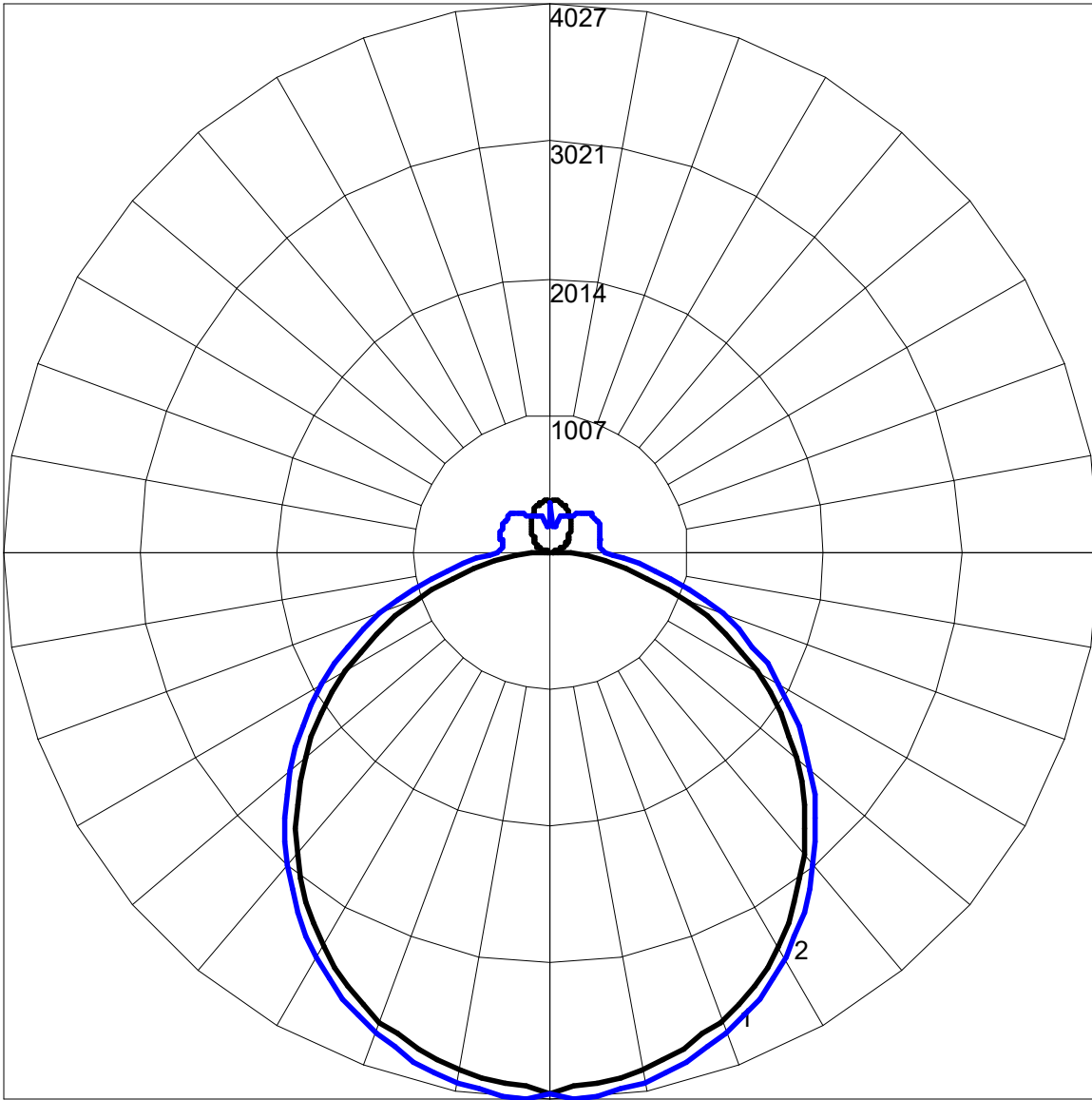
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	19.3	20.7	19.9	21.3	21.9	20.5	21.9	21.0	22.4	23.0
	3H	20.9	22.1	21.4	22.7	23.3	22.6	23.8	23.1	24.4	25.0
	4H	21.4	22.5	21.9	23.1	23.8	23.5	24.7	24.0	25.2	25.9
	6H	21.6	22.7	22.2	23.3	24.0	24.3	25.4	24.9	26.0	26.6
	8H	21.7	22.7	22.3	23.3	24.0	24.7	25.7	25.3	26.3	27.0
	12H	21.7	22.7	22.3	23.3	24.0	25.0	26.1	25.6	26.7	27.4
4H	2H	20.0	21.2	20.6	21.8	22.4	21.0	22.2	21.5	22.7	23.4
	3H	21.8	22.8	22.3	23.4	24.1	23.2	24.2	23.8	24.9	25.5
	4H	22.3	23.3	22.9	23.9	24.6	24.2	25.2	24.9	25.8	26.5
	6H	22.7	23.5	23.4	24.2	24.9	25.2	26.0	25.8	26.7	27.4
	8H	22.8	23.6	23.4	24.2	24.9	25.7	26.4	26.3	27.1	27.8
	12H	22.8	23.5	23.5	24.2	24.9	26.1	26.8	26.8	27.5	28.2
8H	4H	22.7	23.5	23.4	24.2	24.9	24.4	25.2	25.1	25.8	26.6
	6H	23.3	23.9	23.9	24.6	25.3	25.5	26.2	26.2	26.9	27.6
	8H	23.4	24.0	24.1	24.6	25.4	26.1	26.7	26.8	27.4	28.1
	12H	23.5	24.0	24.1	24.6	25.5	26.7	27.2	27.4	27.9	28.7
12H	4H	22.8	23.5	23.5	24.2	24.9	24.4	25.1	25.1	25.8	26.5
	6H	23.4	23.9	24.1	24.6	25.4	25.6	26.1	26.3	26.8	27.6
	8H	23.6	24.1	24.2	24.7	25.6	26.2	26.7	26.9	27.4	28.2

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 4027.47 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)