

Day-Brite



by Signify

IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSI8140L840-UNV-DIM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO43936P1.PSO

[TESTLAB] DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 7/20/2022

[MANUFAC] DAY-BRITE CFI by SIGNIFY

[LUMCAT] FSI8140L840-UNV-DIM

[LUMINAIRE] 8' FLUXSTREAM INDUSTRIAL 4-FLS VO+TvS LV2E 840 BOARDS, 2xXI050C140V054BST1 1168mA 277V, FSI D

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14054
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	15524	13334	12796
55	14891	12110	11612
65	13757	10524	10152
75	11452	8303	8231
85	6002	5520	6147

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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	4105.508	4105.508	4105.508	4105.508	4105.508
2.5	4043.825	4088.578	4103.725	4118.902	4138.962
5.0	4031.244	4073.271	4091.474	4107.929	4125.223
7.5	4007.719	4050.924	4069.457	4085.742	4104.434
10.0	3977.714	4020.121	4037.255	4054.869	4076.995
12.5	3937.046	3978.813	3997.545	4018.214	4038.433
15.0	3887.660	3928.329	3950.945	3967.660	3988.598
17.5	3829.447	3871.194	3891.484	3909.557	3930.745
20.0	3783.207	3801.799	3823.726	3842.997	3868.429
22.5	3714.290	3752.393	3771.724	3783.716	3799.372
25.0	3630.446	3668.389	3693.981	3713.541	3735.039
27.5	3538.674	3576.907	3601.899	3623.786	3645.244
30.0	3440.511	3476.967	3505.584	3526.802	3548.320
32.5	3336.358	3369.908	3402.588	3425.374	3440.861
35.0	3224.596	3258.455	3290.607	3312.224	3332.184
37.5	3105.135	3139.314	3170.138	3195.999	3216.937
40.0	2979.923	3014.302	3047.252	3075.799	3094.981
42.5	2850.468	2882.550	2920.772	2948.990	2969.160
45.0	2715.201	2748.701	2788.072	2818.995	2839.754
47.5	2575.221	2609.420	2648.581	2685.236	2706.914
50.0	2430.089	2464.468	2506.385	2546.265	2570.049
52.5	2280.584	2314.543	2359.426	2405.696	2431.577
55.0	2124.588	2159.007	2207.564	2262.351	2289.231
57.5	1962.630	2000.231	2052.986	2115.123	2142.611
60.0	1798.001	1837.290	1896.567	1966.084	1993.026
62.5	1630.632	1670.485	1737.887	1813.440	1840.567
65.0	1459.809	1500.047	1577.965	1658.217	1688.907
67.5	1286.106	1327.919	1416.778	1501.101	1533.866
70.0	1110.602	1154.647	1254.212	1344.394	1379.288
72.5	934.648	982.810	1094.590	1190.168	1224.910
75.0	759.515	814.716	938.500	1038.690	1074.504
77.5	588.234	652.430	787.649	890.940	928.485
80.0	425.365	501.147	643.575	752.246	791.106
82.5	275.308	363.320	512.740	625.958	667.002
85.0	147.145	245.695	401.301	515.859	557.828
87.5	51.686	159.155	316.263	429.852	470.495
90.0	5.636	117.234	265.877	373.741	411.406
92.5	8.383	113.719	247.668	346.338	381.253
95.0	18.406	121.434	246.911	339.039	371.819
97.5	31.912	131.542	252.954	339.909	371.116
100.0	45.747	141.967	261.485	345.367	375.650
102.5	58.580	152.080	270.506	353.229	382.679
105.0	70.758	162.102	279.015	361.088	389.948
107.5	82.870	171.594	287.229	368.093	397.002
110.0	94.698	179.404	295.047	374.054	402.869
112.5	106.147	182.198	301.627	379.853	408.123
115.0	116.876	178.696	306.180	384.243	411.837
117.5	127.031	173.208	306.901	388.203	415.212
120.0	136.567	168.060	305.553	392.045	418.218
122.5	145.825	163.748	302.577	394.615	419.698
125.0	154.644	162.386	298.825	396.726	420.303
127.5	162.905	165.549	292.465	396.880	420.712
130.0	170.568	169.082	279.848	391.965	419.262
132.5	181.178	176.854	265.741	383.420	417.301

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CANDELA TABULATION - (Cont.)

135.0	196.876	187.914	251.500	370.719	415.005
137.5	213.415	201.693	238.598	348.942	407.801
140.0	229.659	217.369	227.690	324.179	391.512
142.5	245.675	234.174	221.236	298.973	371.152
145.0	261.559	250.959	223.235	275.524	351.194
147.5	277.134	267.826	227.850	254.663	332.313
150.0	292.051	284.371	235.866	239.458	314.915
152.5	306.587	300.245	248.205	231.836	303.752
155.0	320.970	315.340	265.563	229.401	297.343
157.5	334.827	329.150	286.198	232.788	291.626
160.0	347.422	342.497	306.979	245.779	289.645
162.5	359.376	355.570	326.346	263.211	293.537
165.0	369.699	367.795	343.650	280.483	274.891
167.5	378.797	378.108	359.282	298.096	233.645
170.0	385.814	387.857	372.614	315.350	200.020
172.5	392.622	397.000	385.211	329.942	194.252
175.0	398.847	404.704	395.194	343.069	199.071
177.5	400.826	408.960	401.810	352.279	202.558
180.0	368.021	368.021	368.021	368.021	368.021

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1502.24	N.A.	10.70
0-30	3200.77	N.A.	22.80
0-40	5255.73	N.A.	37.40
0-60	9376.89	N.A.	66.70
0-80	11920.02	N.A.	84.80
0-90	12355.25	N.A.	87.90
10-90	11966.74	N.A.	85.10
20-40	3753.49	N.A.	26.70
20-50	5900.54	N.A.	42.00
40-70	5681.7	N.A.	40.40
60-80	2543.13	N.A.	18.10
70-80	982.58	N.A.	7.00
80-90	435.23	N.A.	3.10
90-110	524.41	N.A.	3.70
90-120	804.38	N.A.	5.70
90-130	1060.93	N.A.	7.50
90-150	1443.15	N.A.	10.30
90-180	1698.67	N.A.	12.10
110-180	1174.26	N.A.	8.40
0-180	14053.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	388.51
10-20	1113.73
20-30	1698.53
30-40	2054.96
40-50	2147.05
50-60	1974.1
60-70	1560.55
70-80	982.58
80-90	435.23
90-100	251.85
100-110	272.56
110-120	279.97
120-130	256.55
130-140	215.49
140-150	166.74
150-160	129.81
160-170	91.92
170-180	33.79

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

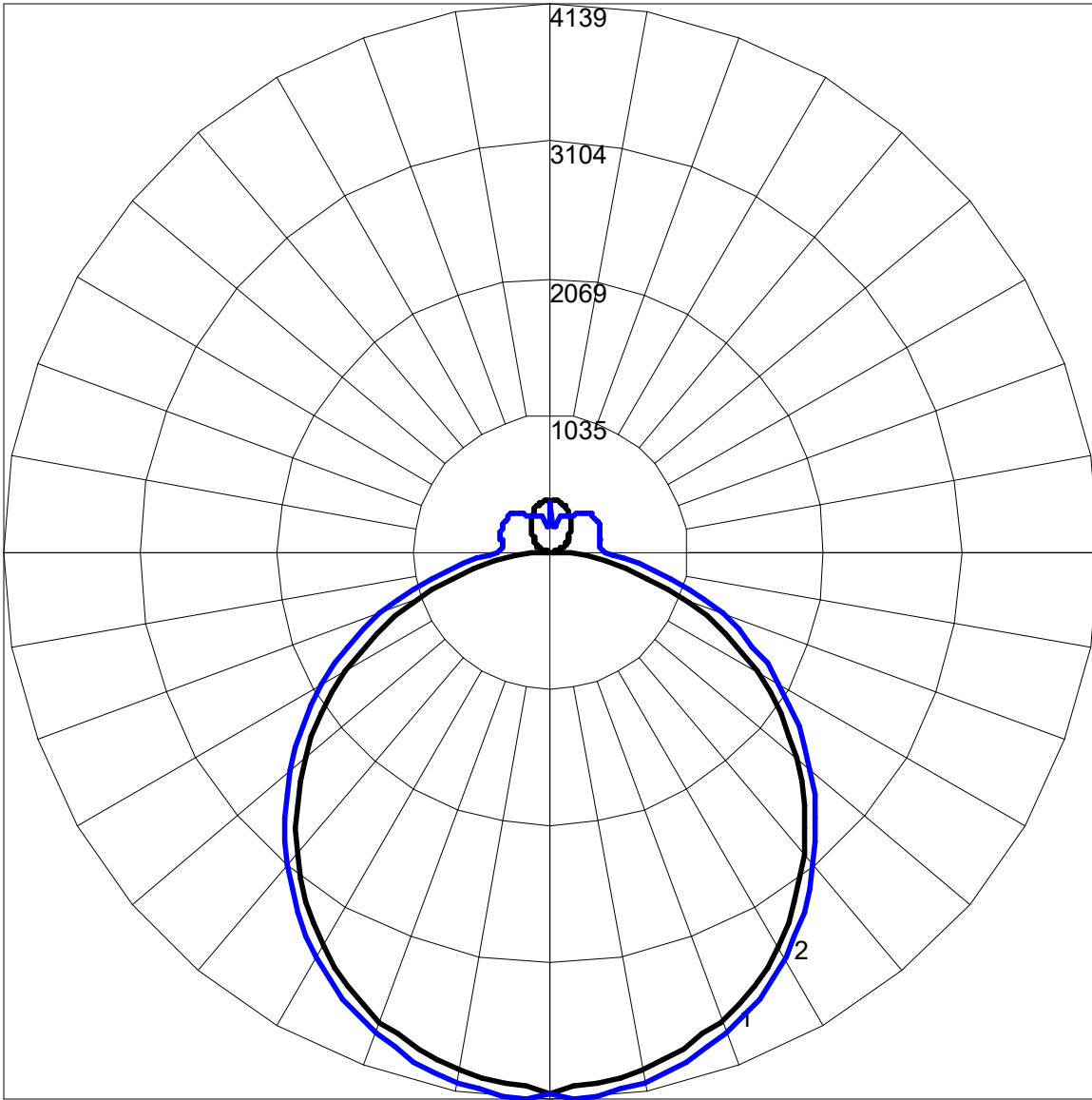
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UGR TABLE - CORRECTED

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	19.4	20.8	20.0	21.4	22.0	20.6	22.0	21.1	22.5	23.1
	3H	21.0	22.2	21.5	22.8	23.4	22.7	23.9	23.2	24.5	25.1
	4H	21.5	22.6	22.0	23.2	23.9	23.6	24.8	24.1	25.3	26.0
	6H	21.7	22.8	22.3	23.4	24.1	24.4	25.5	25.0	26.1	26.7
	8H	21.8	22.8	22.4	23.4	24.1	24.8	25.8	25.4	26.4	27.1
	12H	21.8	22.8	22.4	23.4	24.1	25.1	26.2	25.7	26.8	27.5
4H	2H	20.1	21.3	20.7	21.9	22.5	21.1	22.3	21.6	22.8	23.5
	3H	21.9	22.9	22.4	23.5	24.2	23.3	24.3	23.9	25.0	25.6
	4H	22.4	23.4	23.0	24.0	24.7	24.3	25.3	25.0	25.9	26.6
	6H	22.8	23.6	23.5	24.3	25.0	25.3	26.1	25.9	26.8	27.5
	8H	22.9	23.7	23.5	24.3	25.0	25.8	26.5	26.4	27.2	27.9
	12H	22.9	23.6	23.6	24.3	25.0	26.2	26.9	26.9	27.6	28.3
8H	4H	22.8	23.6	23.5	24.3	25.0	24.5	25.3	25.2	25.9	26.7
	6H	23.4	24.0	24.0	24.7	25.4	25.6	26.3	26.3	27.0	27.7
	8H	23.5	24.1	24.2	24.7	25.5	26.2	26.8	26.9	27.5	28.2
	12H	23.6	24.1	24.2	24.7	25.6	26.8	27.3	27.5	28.0	28.8
12H	4H	22.9	23.6	23.6	24.3	25.0	24.5	25.2	25.2	25.9	26.6
	6H	23.5	24.0	24.2	24.7	25.5	25.7	26.2	26.4	26.9	27.7
	8H	23.7	24.2	24.3	24.8	25.7	26.3	26.8	27.0	27.5	28.3

Maximum UGR = 28.8

POLAR GRAPH



Maximum Candela = 4138.962 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)