



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L130-835-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 12-NOV-2019

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-8-L130-835-DIM-UNV

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	12285
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	85.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22359	17954	16872
55	19043	15078	15118
65	15067	12916	13733
75	10544	10596	12184
85	5042	9049	10681

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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	4145.038	4145.038	4145.038	4145.038	4145.038
5	4180.690	4128.150	4126.274	4116.892	4068.104
10	4109.386	4062.475	4066.228	4054.969	4009.935
15	3994.924	3949.889	3961.148	3949.889	3912.361
20	3803.528	3769.752	3803.528	3786.640	3747.235
25	3567.097	3553.962	3583.985	3582.109	3523.939
30	3306.273	3311.902	3345.678	3345.678	3274.374
35	2987.280	3032.314	3049.202	3054.831	2981.650
40	2640.140	2707.691	2692.680	2722.703	2685.174
45	2300.506	2360.551	2356.799	2411.215	2401.833
50	1953.366	2007.782	2050.940	2142.885	2161.650
55	1596.844	1664.395	1760.093	1897.073	1958.995
60	1260.962	1343.525	1506.775	1675.654	1756.340
65	938.216	1069.566	1274.097	1467.370	1549.933
70	643.616	816.248	1035.790	1245.951	1343.525
75	409.062	574.188	821.877	1032.038	1129.612
80	223.295	382.792	645.493	836.889	926.957
85	71.304	234.554	489.749	660.504	744.943
90	0.000	151.991	373.410	532.907	591.076
95	0.000	138.856	349.016	487.872	521.648
100	0.000	131.350	324.623	444.714	474.737
105	0.000	120.092	303.982	410.939	440.962
110	0.000	112.586	283.341	384.669	414.691
115	0.000	103.204	258.948	360.275	388.421
120	0.000	88.192	232.678	326.499	360.275
125	0.000	73.181	210.160	298.353	328.376
130	0.000	60.046	182.014	266.453	287.094
135	0.000	54.417	146.362	230.801	251.442
140	0.000	45.034	114.462	193.272	213.913
145	0.000	35.652	88.192	150.115	170.755
150	0.000	26.270	67.552	114.462	131.350
155	0.000	20.641	54.417	82.563	95.698
160	0.000	0.000	39.405	60.046	67.552
165	0.000	0.000	26.270	43.158	46.911
170	0.000	0.000	0.000	26.270	28.146
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1504.74	N.A.	12.20
0-30	3147.55	N.A.	25.60
0-40	5038.61	N.A.	41.00
0-60	8466.63	N.A.	68.90
0-80	10573.04	N.A.	86.10
0-90	11076.01	N.A.	90.20
10-90	10684.36	N.A.	87.00
20-40	3533.87	N.A.	28.80
20-50	5368.05	N.A.	43.70
40-70	4681.00	N.A.	38.10
60-80	2106.41	N.A.	17.10
70-80	853.43	N.A.	6.90
80-90	502.97	N.A.	4.10
90-110	618.89	N.A.	5.00
90-120	845.46	N.A.	6.90
90-130	1012.37	N.A.	8.20
90-150	1178.02	N.A.	9.60
90-180	1209.06	N.A.	9.80
110-180	590.17	N.A.	4.80
0-180	12285.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	391.65
10-20	1113.09
20-30	1642.81
30-40	1891.06
40-50	1834.18
50-60	1593.84
60-70	1252.98
70-80	853.43
80-90	502.97
90-100	338.63
100-110	280.26
110-120	226.56
120-130	166.91
130-140	108.17
140-150	57.48
150-160	24.05
160-170	6.63
170-180	0.36

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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	120	120	120	120	116	116	116	116	109	109	109	102	102	102	96	96	96	93
1	109	104	99	95	105	100	96	92	94	91	87	88	85	83	83	81	79	76
2	99	90	83	77	95	87	81	75	82	77	72	77	73	69	73	69	66	63
3	90	79	71	64	87	77	69	63	72	66	60	68	63	58	64	60	56	53
4	83	70	61	54	80	68	60	54	64	57	52	61	55	50	58	52	48	46
5	76	63	54	47	73	61	53	46	58	51	45	55	48	43	52	46	42	40
6	70	57	48	41	68	55	47	41	52	45	39	50	43	38	47	42	37	35
7	65	52	43	36	63	50	42	36	48	40	35	45	39	34	43	38	33	31
8	61	47	38	33	59	46	38	32	44	37	31	42	35	31	40	34	30	28
9	57	43	35	29	55	42	34	29	40	33	28	39	32	28	37	31	27	25
10	53	40	32	27	52	39	31	26	37	30	26	36	30	25	34	29	25	23

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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

X=2H	Y=2H	20.2	21.7	20.8	22.2	22.7	21.6	23.0	22.1	23.5	24.1
	3H	21.7	22.9	22.2	23.5	24.1	24.0	25.3	24.5	25.8	26.4
	4H	22.1	23.3	22.7	23.9	24.5	25.1	26.3	25.7	26.9	27.5
	6H	22.4	23.5	23.0	24.1	24.7	26.3	27.4	26.9	28.0	28.6
	8H	22.5	23.6	23.1	24.1	24.8	26.9	28.0	27.5	28.5	29.2
	12H	22.5	23.6	23.1	24.1	24.8	27.5	28.6	28.1	29.1	29.8

UGR Viewed Endwise

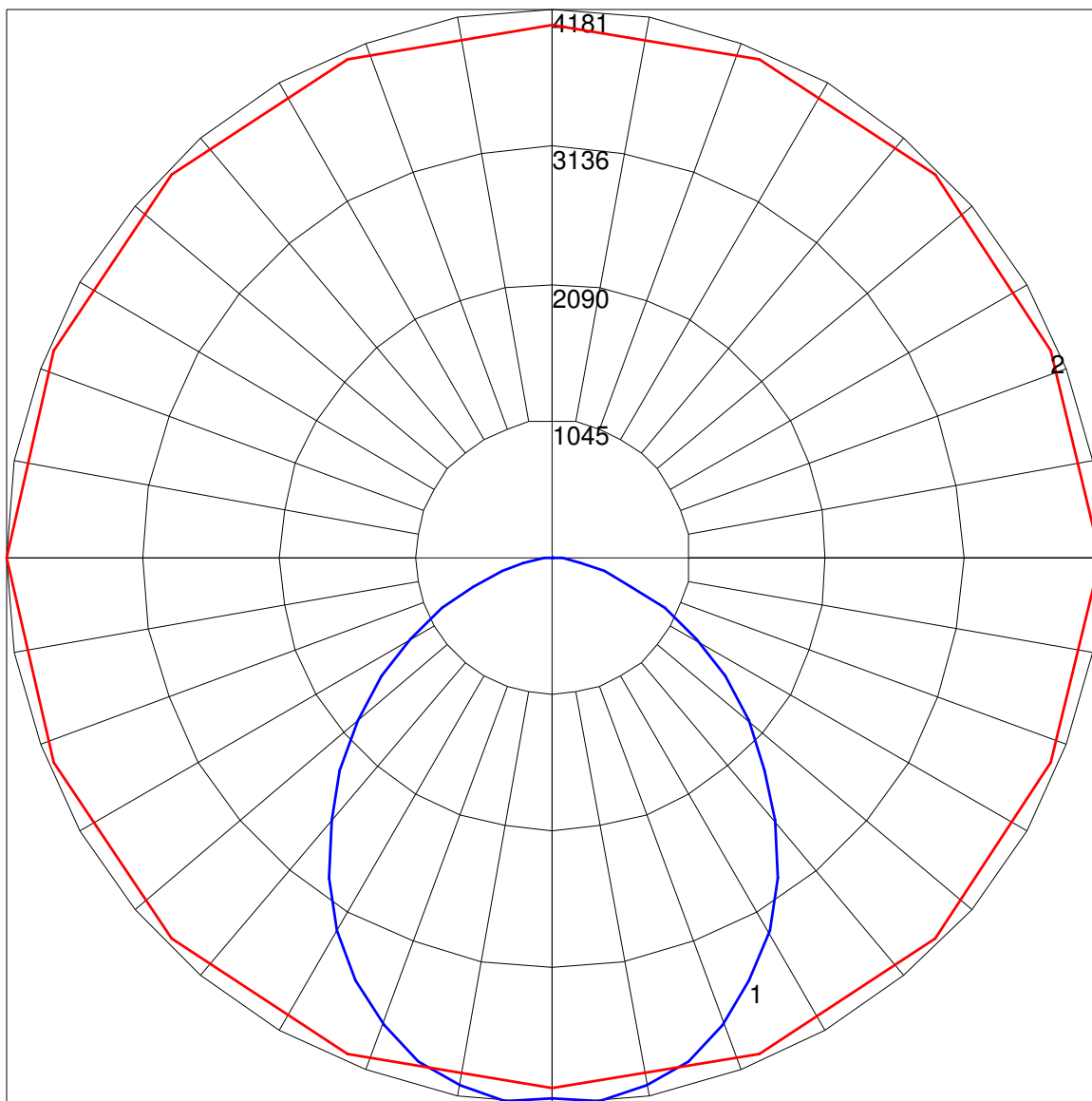
4H	2H	20.8	22.1	21.4	22.6	23.2	21.9	23.1	22.5	23.7	24.3
	3H	22.5	23.5	23.1	24.1	24.7	24.5	25.6	25.1	26.2	26.8
	4H	23.1	24.0	23.7	24.6	25.3	25.9	26.8	26.4	27.4	28.0
	6H	23.5	24.3	24.1	24.9	25.6	27.2	28.0	27.8	28.6	29.3
	8H	23.6	24.4	24.2	25.0	25.7	27.9	28.7	28.5	29.3	30.0
	12H	23.7	24.4	24.3	25.0	25.7	28.7	29.4	29.3	30.0	30.7

8H	4H	23.5	24.3	24.1	24.9	25.6	26.0	26.8	26.6	27.4	28.1
	6H	24.1	24.7	24.7	25.4	26.1	27.5	28.1	28.1	28.8	29.5
	8H	24.3	24.9	24.9	25.5	26.2	28.3	28.9	29.0	29.6	30.3
	12H	24.4	25.0	25.1	25.6	26.4	29.2	29.8	29.9	30.4	31.2

12H	4H	23.6	24.3	24.2	24.9	25.6	26.0	26.7	26.6	27.3	28.0
	6H	24.3	24.8	24.9	25.5	26.2	27.5	28.1	28.2	28.7	29.5
	8H	24.5	25.1	25.2	25.7	26.5	28.4	28.9	29.0	29.6	30.3

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 4180.69 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)