



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L100-835-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-L100-835-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	9436
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	63.5
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	17174	13790	12959
55	14627	11581	11612
65	11572	9921	10548
75	8099	8139	9359
85	3873	6950	8204

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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	3183.768	3183.768	3183.768	3183.768	3183.768
5	3211.152	3170.796	3169.355	3162.148	3124.675
10	3156.383	3120.352	3123.234	3114.587	3079.996
15	3068.466	3033.875	3042.523	3033.875	3005.050
20	2921.456	2895.513	2921.456	2908.485	2878.218
25	2739.856	2729.767	2752.828	2751.386	2706.707
30	2539.519	2543.843	2569.786	2569.786	2515.018
35	2294.503	2329.094	2342.065	2346.389	2290.180
40	2027.868	2079.754	2068.224	2091.284	2062.459
45	1766.998	1813.119	1810.236	1852.033	1844.827
50	1500.363	1542.160	1575.309	1645.931	1660.344
55	1226.522	1278.407	1351.912	1457.125	1504.687
60	968.534	1031.950	1157.341	1287.055	1349.030
65	720.635	821.524	978.623	1127.074	1190.490
70	494.356	626.953	795.582	957.004	1031.950
75	314.197	441.029	631.277	792.699	867.645
80	171.511	294.019	495.797	642.807	711.988
85	54.768	180.159	376.172	507.327	572.185
90	0.000	116.743	286.813	409.321	454.000
95	0.000	106.654	268.076	374.730	400.673
100	0.000	100.889	249.340	341.581	364.642
105	0.000	92.241	233.486	315.638	338.699
110	0.000	86.476	217.632	295.461	318.521
115	0.000	79.270	198.895	276.724	298.343
120	0.000	67.740	178.718	250.781	276.724
125	0.000	56.210	161.422	229.162	252.222
130	0.000	46.121	139.803	204.660	220.514
135	0.000	41.797	112.419	177.276	193.130
140	0.000	34.591	87.918	148.451	164.305
145	0.000	27.384	67.740	115.302	131.156
150	0.000	20.178	51.886	87.918	100.889
155	0.000	15.854	41.797	63.416	73.505
160	0.000	0.000	30.267	46.121	51.886
165	0.000	0.000	20.178	33.149	36.032
170	0.000	0.000	0.000	20.178	21.619
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	1155.78	N.A.	12.20
0-30	2417.6	N.A.	25.60
0-40	3870.11	N.A.	41.00
0-60	6503.14	N.A.	68.90
0-80	8121.06	N.A.	86.10
0-90	8507.39	N.A.	90.20
10-90	8206.57	N.A.	87.00
20-40	2714.33	N.A.	28.80
20-50	4123.15	N.A.	43.70
40-70	3595.44	N.A.	38.10
60-80	1617.92	N.A.	17.10
70-80	655.51	N.A.	6.90
80-90	386.33	N.A.	4.10
90-110	475.37	N.A.	5.00
90-120	649.39	N.A.	6.90
90-130	777.59	N.A.	8.20
90-150	904.82	N.A.	9.60
90-180	928.67	N.A.	9.80
110-180	453.30	N.A.	4.80
0-180	9436.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	300.82
10-20	854.95
20-30	1261.83
30-40	1452.5
40-50	1408.82
50-60	1224.22
60-70	962.40
70-80	655.51
80-90	386.33
90-100	260.10
100-110	215.27
110-120	174.02
120-130	128.20
130-140	83.08
140-150	44.15
150-160	18.47
160-170	5.10
170-180	0.28

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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

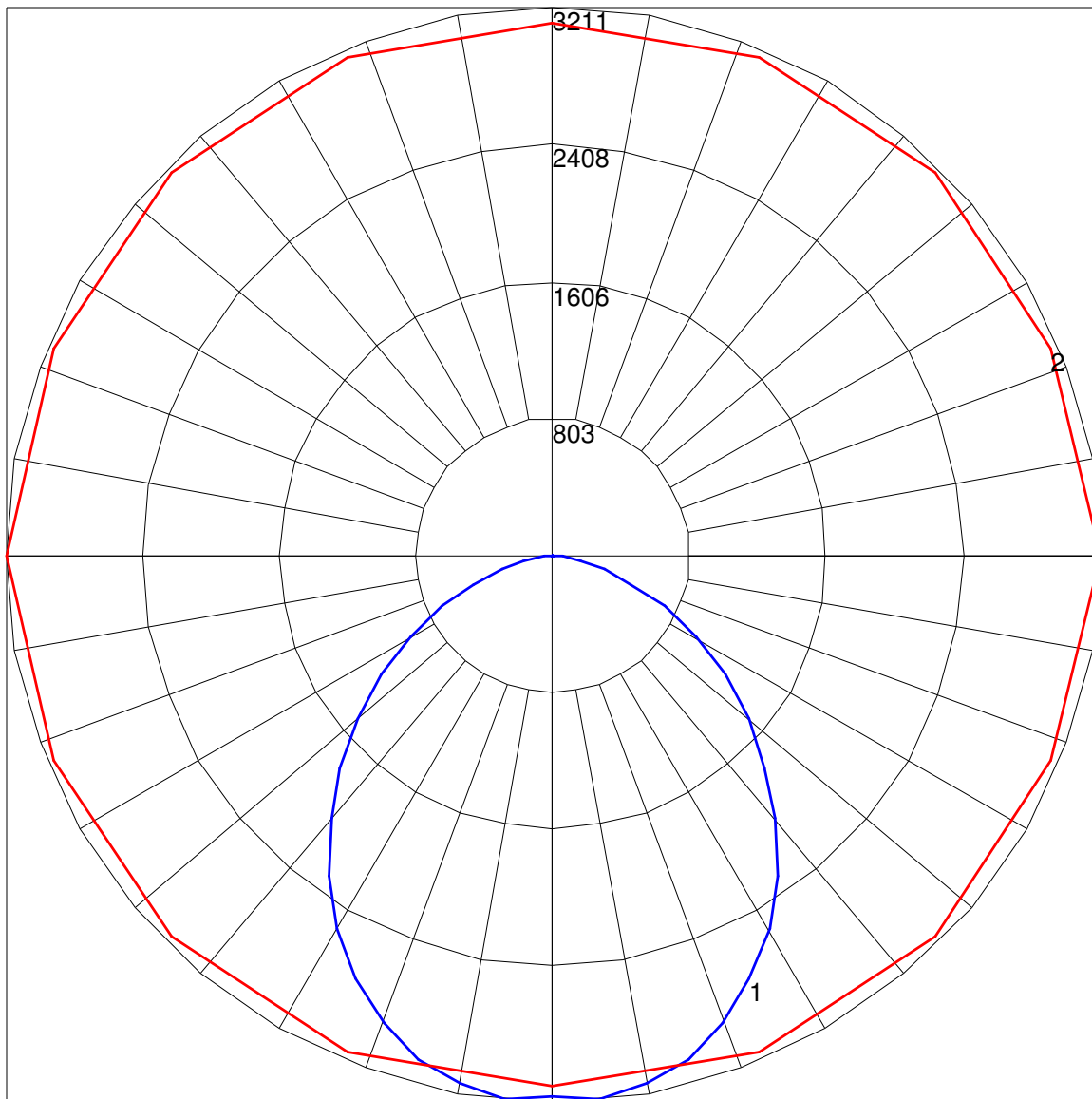
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.3	20.8	19.9	21.3	21.8	20.7	22.1	21.2	22.6	23.2
	3H	20.8	22.0	21.3	22.6	23.2	23.1	24.4	23.6	24.9	25.5
	4H	21.2	22.4	21.8	23.0	23.6	24.2	25.4	24.8	26.0	26.6
	6H	21.5	22.6	22.1	23.2	23.8	25.4	26.5	26.0	27.1	27.7
	8H	21.6	22.7	22.2	23.2	23.9	26.0	27.1	26.6	27.6	28.3
	12H	21.6	22.7	22.2	23.2	23.9	26.6	27.7	27.2	28.2	28.9
4H	2H	19.9	21.2	20.5	21.7	22.3	21.0	22.2	21.6	22.8	23.4
	3H	21.6	22.6	22.2	23.2	23.8	23.6	24.7	24.2	25.3	25.9
	4H	22.2	23.1	22.8	23.7	24.4	25.0	25.9	25.5	26.5	27.1
	6H	22.6	23.4	23.2	24.0	24.7	26.3	27.1	26.9	27.7	28.4
	8H	22.7	23.5	23.3	24.1	24.8	27.0	27.8	27.6	28.4	29.1
	12H	22.8	23.5	23.4	24.1	24.8	27.8	28.5	28.4	29.1	29.8
8H	4H	22.6	23.4	23.2	24.0	24.7	25.1	25.9	25.7	26.5	27.2
	6H	23.2	23.8	23.8	24.5	25.2	26.6	27.2	27.2	27.9	28.6
	8H	23.4	24.0	24.0	24.6	25.3	27.4	28.0	28.1	28.7	29.4
	12H	23.5	24.1	24.2	24.7	25.5	28.3	28.9	29.0	29.5	30.3
12H	4H	22.7	23.4	23.3	24.0	24.7	25.1	25.8	25.7	26.4	27.1
	6H	23.4	23.9	24.0	24.6	25.3	26.6	27.2	27.3	27.8	28.6
	8H	23.6	24.2	24.3	24.8	25.6	27.5	28.0	28.1	28.7	29.4

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 3211.152 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.)