



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-L15-835-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] 05-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-2-L15-835-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	1496
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	19.6
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)	1.88 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	10435	8499	8131
55	8770	7099	7286
65	6792	6038	6618
75	4544	4902	5872
85	1821	4107	5147

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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	504.760	504.760	504.760	504.760	504.760
5	509.102	502.704	502.475	501.333	495.391
10	500.419	494.706	495.163	493.792	488.308
15	486.480	480.996	482.367	480.996	476.426
20	463.173	459.060	463.173	461.116	456.318
25	434.382	432.782	436.438	436.210	429.126
30	402.620	403.305	407.418	407.418	398.735
35	363.775	369.259	371.315	372.001	363.089
40	321.502	329.728	327.900	331.556	326.986
45	280.143	287.455	286.998	293.625	292.482
50	237.870	244.497	249.752	260.949	263.234
55	194.455	202.681	214.335	231.015	238.556
60	153.553	163.607	183.487	204.052	213.878
65	114.251	130.246	155.153	178.688	188.742
70	78.376	99.398	126.133	151.725	163.607
75	49.813	69.921	100.084	125.676	137.558
80	27.192	46.614	78.605	101.912	112.880
85	8.683	28.563	59.639	80.433	90.715
90	0.000	18.509	45.472	64.894	71.978
95	0.000	16.909	42.501	59.410	63.523
100	0.000	15.995	39.531	54.155	57.811
105	0.000	14.624	37.017	50.042	53.698
110	0.000	13.710	34.504	46.843	50.499
115	0.000	12.568	31.533	43.872	47.300
120	0.000	10.740	28.334	39.759	43.872
125	0.000	8.912	25.592	36.332	39.988
130	0.000	7.312	22.165	32.447	34.961
135	0.000	6.627	17.823	28.106	30.619
140	0.000	5.484	13.939	23.536	26.049
145	0.000	4.342	10.740	18.280	20.794
150	0.000	3.199	8.226	13.939	15.995
155	0.000	2.514	6.627	10.054	11.654
160	0.000	0.000	4.799	7.312	8.226
165	0.000	0.000	3.199	5.256	5.713
170	0.000	0.000	0.000	3.199	3.428
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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Zone	Lumens	%Lamp	%Fixt
0-20	183.24	N.A.	12.20
0-30	383.29	N.A.	25.60
0-40	613.57	N.A.	41.00
0-60	1031.02	N.A.	68.90
0-80	1287.53	N.A.	86.10
0-90	1348.78	N.A.	90.20
10-90	1301.08	N.A.	87.00
20-40	430.34	N.A.	28.80
20-50	653.69	N.A.	43.70
40-70	570.03	N.A.	38.10
60-80	256.51	N.A.	17.10
70-80	103.93	N.A.	6.90
80-90	61.25	N.A.	4.10
90-110	75.37	N.A.	5.00
90-120	102.96	N.A.	6.90
90-130	123.28	N.A.	8.20
90-150	143.45	N.A.	9.60
90-180	147.23	N.A.	9.80
110-180	71.87	N.A.	4.80
0-180	1496.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.69
10-20	135.55
20-30	200.05
30-40	230.28
40-50	223.36
50-60	194.09
60-70	152.58
70-80	103.93
80-90	61.25
90-100	41.24
100-110	34.13
110-120	27.59
120-130	20.33
130-140	13.17
140-150	7.00
150-160	2.93
160-170	0.81
170-180	0.04

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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	62	62	62	62	60	60	60	60	56	56	56	52	52	52	49	49	49	48
1	56	53	51	49	54	51	49	47	48	46	45	45	44	43	43	41	40	39
2	51	46	43	40	49	45	41	39	42	39	37	40	37	35	37	35	34	32
3	46	41	36	33	45	39	35	32	37	34	31	35	32	30	33	31	29	27
4	42	36	31	28	41	35	31	27	33	29	27	31	28	26	30	27	25	23
5	39	32	28	24	38	31	27	24	30	26	23	28	25	22	27	24	22	20
6	36	29	24	21	35	28	24	21	27	23	20	26	22	20	24	21	19	18
7	34	26	22	19	32	26	22	18	25	21	18	23	20	17	22	19	17	16
8	31	24	20	17	30	24	19	17	22	19	16	21	18	16	20	17	15	14
9	29	22	18	15	28	22	18	15	21	17	15	20	17	14	19	16	14	13
10	27	21	16	14	26	20	16	14	19	16	13	18	15	13	18	15	13	12

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UGR TABLE - CORRECTED

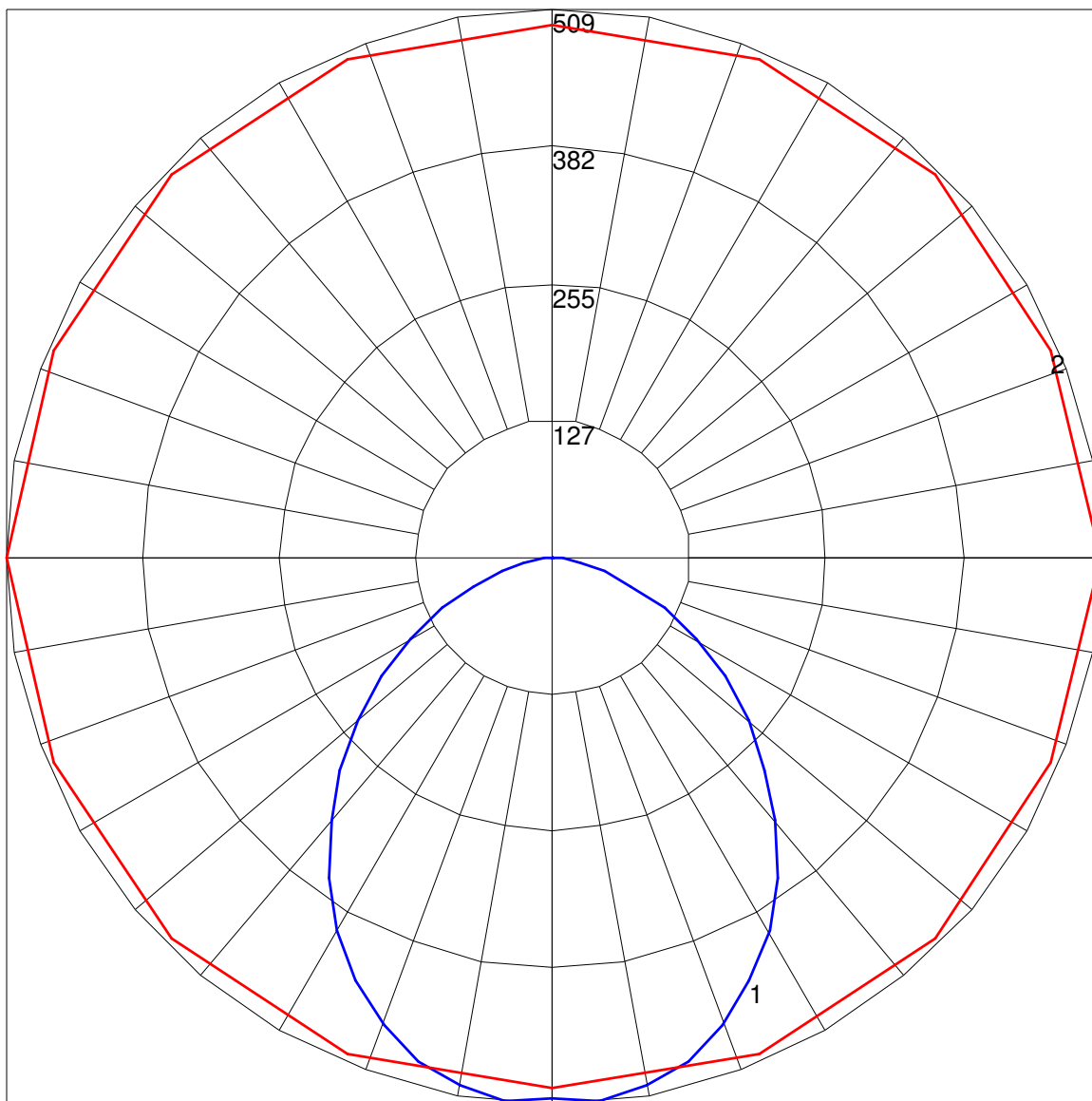
Reflectances

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	17.6	19.0	18.1	19.5	20.1	18.9	20.4	19.5	20.9	21.4
	3H	19.0	20.3	19.5	20.8	21.4	21.3	22.6	21.9	23.1	23.7
	4H	19.5	20.7	20.0	21.2	21.8	22.5	23.7	23.0	24.2	24.8
	6H	19.7	20.9	20.3	21.4	22.0	23.6	24.7	24.2	25.3	25.9
	8H	19.8	20.9	20.4	21.5	22.1	24.2	25.3	24.8	25.8	26.5
	12H	19.8	20.9	20.4	21.4	22.1	24.8	25.8	25.4	26.4	27.1
4H	2H	18.2	19.4	18.8	20.0	20.6	19.3	20.5	19.8	21.0	21.7
	3H	19.8	20.9	20.4	21.5	22.1	21.9	22.9	22.5	23.5	24.1
	4H	20.4	21.4	21.0	21.9	22.6	23.2	24.1	23.8	24.7	25.4
	6H	20.8	21.7	21.4	22.3	22.9	24.5	25.3	25.1	25.9	26.6
	8H	20.9	21.7	21.5	22.3	23.0	25.2	26.0	25.8	26.6	27.3
	12H	21.0	21.7	21.6	22.3	23.0	25.9	26.6	26.5	27.3	28.0
8H	4H	20.8	21.6	21.5	22.2	22.9	23.3	24.1	23.9	24.7	25.4
	6H	21.4	22.1	22.1	22.7	23.4	24.8	25.5	25.5	26.1	26.8
	8H	21.6	22.2	22.3	22.9	23.6	25.6	26.2	26.3	26.9	27.6
	12H	21.8	22.3	22.4	22.9	23.7	26.5	27.0	27.2	27.7	28.5
12H	4H	20.9	21.6	21.6	22.3	23.0	23.3	24.0	23.9	24.7	25.4
	6H	21.6	22.2	22.3	22.8	23.6	24.8	25.4	25.5	26.0	26.8
	8H	21.9	22.4	22.5	23.0	23.8	25.7	26.2	26.3	26.9	27.6

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 509.102 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.)