



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L27-835-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] 04-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L27-8FS-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	2537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	17.5
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)	3.72 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	9136	7372	6970
55	7746	6180	6246
65	6082	5281	5674
75	4189	4317	5034
85	1871	3662	4413

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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	856.000	856.000	856.000	856.000	856.000
5	863.363	852.513	852.125	850.188	840.112
10	848.638	838.950	839.725	837.400	828.100
15	825.000	815.700	818.025	815.700	807.949
20	785.474	778.499	785.474	781.987	773.849
25	736.648	733.936	740.136	739.748	727.736
30	682.785	683.948	690.923	690.923	676.197
35	616.909	626.209	629.697	630.859	615.747
40	545.221	559.171	556.071	562.271	554.521
45	475.082	487.482	486.707	497.945	496.007
50	403.393	414.631	423.544	442.532	446.407
55	329.767	343.718	363.480	391.768	404.556
60	260.404	277.454	311.167	346.043	362.705
65	193.753	220.878	263.116	303.029	320.080
70	132.914	168.565	213.903	257.304	277.454
75	84.476	118.577	169.728	213.128	233.278
80	46.113	79.051	133.302	172.828	191.428
85	14.725	48.438	101.139	136.402	153.840
90	0.000	31.388	77.114	110.052	122.064
95	0.000	28.675	72.076	100.751	107.727
100	0.000	27.125	67.038	91.839	98.039
105	0.000	24.800	62.776	84.864	91.064
110	0.000	23.250	58.513	79.439	85.639
115	0.000	21.313	53.476	74.401	80.214
120	0.000	18.213	48.051	67.426	74.401
125	0.000	15.113	43.401	61.613	67.813
130	0.000	12.400	37.588	55.026	59.288
135	0.000	11.238	30.225	47.663	51.926
140	0.000	9.300	23.638	39.913	44.176
145	0.000	7.363	18.213	31.000	35.263
150	0.000	5.425	13.950	23.638	27.125
155	0.000	4.263	11.238	17.050	19.763
160	0.000	0.000	8.138	12.400	13.950
165	0.000	0.000	5.425	8.913	9.688
170	0.000	0.000	0.000	5.425	5.813
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	310.75	N.A.	12.20
0-30	650.01	N.A.	25.60
0-40	1040.53	N.A.	41.00
0-60	1748.46	N.A.	68.90
0-80	2183.46	N.A.	86.10
0-90	2287.33	N.A.	90.20
10-90	2206.45	N.A.	87.00
20-40	729.79	N.A.	28.80
20-50	1108.57	N.A.	43.70
40-70	966.68	N.A.	38.10
60-80	435.00	N.A.	17.10
70-80	176.24	N.A.	6.90
80-90	103.87	N.A.	4.10
90-110	127.81	N.A.	5.00
90-120	174.60	N.A.	6.90
90-130	209.07	N.A.	8.20
90-150	243.27	N.A.	9.60
90-180	249.69	N.A.	9.80
110-180	121.88	N.A.	4.80
0-180	2537.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.88
10-20	229.87
20-30	339.26
30-40	390.53
40-50	378.78
50-60	329.15
60-70	258.76
70-80	176.24
80-90	103.87
90-100	69.93
100-110	57.88
110-120	46.79
120-130	34.47
130-140	22.34
140-150	11.87
150-160	4.97
160-170	1.37
170-180	0.07

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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	45	45	45	45	44	44	44	44	41	41	41	38	38	38	36	36	36	35
1	41	39	37	36	39	38	36	35	35	34	33	33	32	31	31	30	30	29
2	37	34	31	29	36	33	30	28	31	29	27	29	27	26	27	26	25	24
3	34	30	27	24	33	29	26	24	27	25	23	26	24	22	24	23	21	20
4	31	26	23	20	30	26	23	20	24	22	19	23	21	19	22	20	18	17
5	29	24	20	18	28	23	20	17	22	19	17	21	18	16	20	17	16	15
6	26	21	18	15	25	21	18	15	20	17	15	19	16	14	18	16	14	13
7	25	19	16	14	24	19	16	14	18	15	13	17	15	13	16	14	12	12
8	23	18	14	12	22	17	14	12	16	14	12	16	13	12	15	13	11	10
9	21	16	13	11	21	16	13	11	15	13	11	15	12	10	14	12	10	9
10	20	15	12	10	19	15	12	10	14	11	10	13	11	9	13	11	9	9

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UGR TABLE - CORRECTED

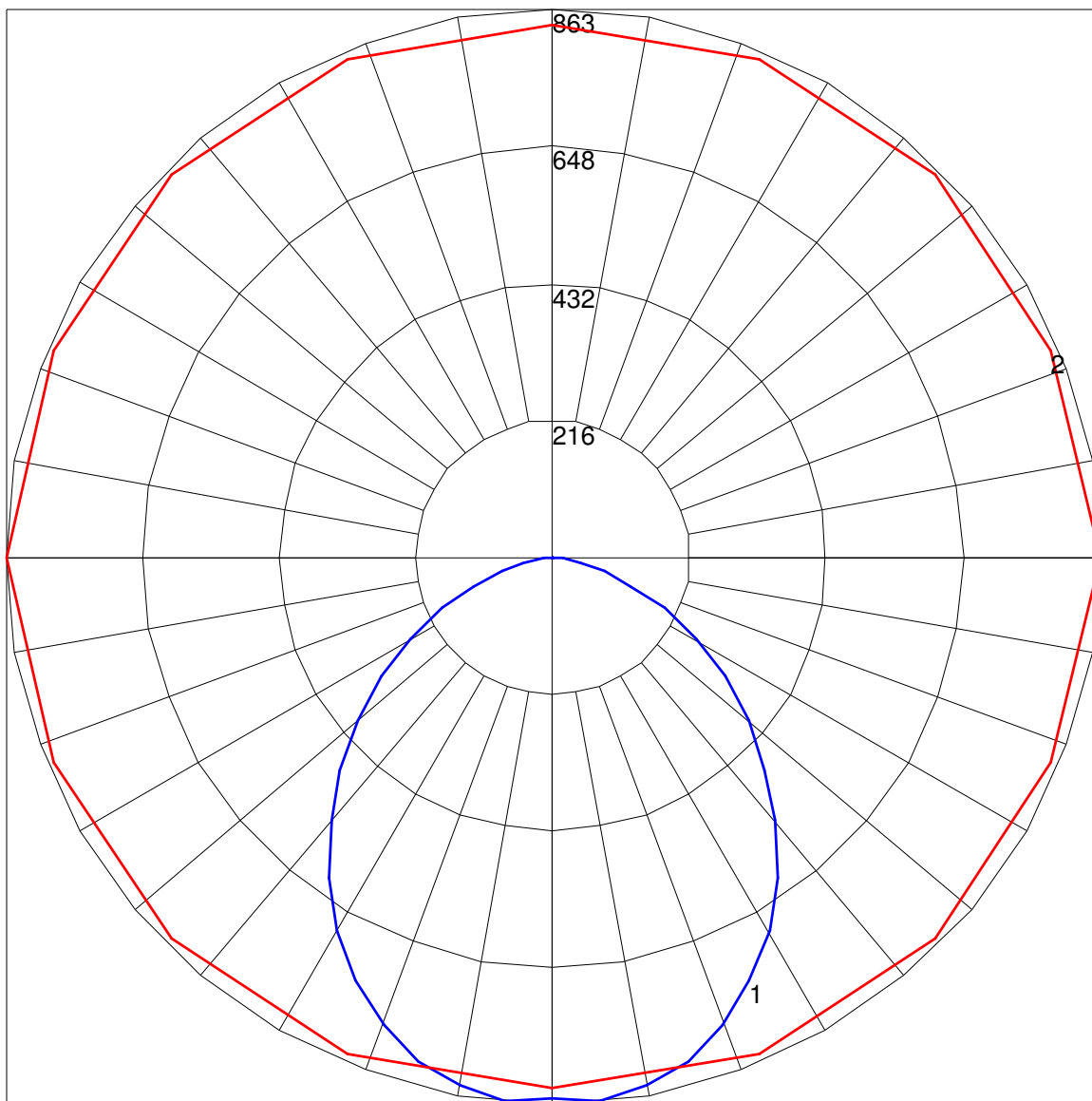
Reflectances

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	20.5	21.9	21.0	22.4	23.0	21.8	23.3	22.4	23.8	24.3
	3H	21.9	23.2	22.5	23.7	24.3	24.2	25.5	24.8	26.0	26.6
	4H	22.4	23.6	22.9	24.1	24.7	25.4	26.6	25.9	27.1	27.7
	6H	22.6	23.8	23.2	24.3	24.9	26.5	27.6	27.1	28.2	28.8
	8H	22.7	23.8	23.3	24.4	25.0	27.1	28.2	27.7	28.7	29.4
	12H	22.7	23.8	23.3	24.3	25.0	27.7	28.7	28.3	29.3	30.0
4H	2H	21.1	22.3	21.7	22.9	23.5	22.2	23.4	22.7	23.9	24.6
	3H	22.7	23.8	23.3	24.4	25.0	24.8	25.8	25.4	26.4	27.0
	4H	23.3	24.3	23.9	24.8	25.5	26.1	27.0	26.7	27.6	28.3
	6H	23.7	24.6	24.3	25.2	25.8	27.4	28.2	28.0	28.8	29.5
	8H	23.8	24.6	24.5	25.2	25.9	28.1	28.9	28.7	29.5	30.2
	12H	23.9	24.6	24.5	25.3	25.9	28.8	29.5	29.5	30.2	30.9
8H	4H	23.8	24.5	24.4	25.1	25.8	26.2	27.0	26.8	27.6	28.3
	6H	24.3	25.0	25.0	25.6	26.3	27.7	28.4	28.4	29.0	29.7
	8H	24.5	25.1	25.2	25.8	26.5	28.5	29.1	29.2	29.8	30.5
	12H	24.7	25.2	25.3	25.8	26.6	29.4	29.9	30.1	30.6	31.4
12H	4H	23.8	24.5	24.5	25.2	25.9	26.2	26.9	26.8	27.6	28.3
	6H	24.5	25.1	25.2	25.7	26.5	27.7	28.3	28.4	28.9	29.7
	8H	24.8	25.3	25.4	25.9	26.7	28.6	29.1	29.2	29.8	30.5

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 863.363 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.)