



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-L30-835-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-L30-835-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	2906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	136
Total Luminaire Watts	21.3
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	20269	16509	15794
55	17036	13790	14153
65	13193	11729	12856
75	8827	9521	11406
85	3537	7978	9998

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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	980.503	980.503	980.503	980.503	980.503
5	988.937	976.508	976.064	973.845	962.304
10	972.070	960.973	961.861	959.197	948.545
15	944.994	934.341	937.004	934.341	925.463
20	899.719	891.730	899.719	895.724	886.403
25	843.792	840.685	847.787	847.343	833.583
30	782.094	783.426	791.416	791.416	774.549
35	706.637	717.290	721.285	722.616	705.305
40	624.521	640.501	636.950	644.052	635.174
45	544.181	558.385	557.497	570.370	568.150
50	462.066	474.938	485.147	506.897	511.335
55	377.731	393.710	416.348	448.750	463.398
60	298.279	317.809	356.426	396.374	415.460
65	221.934	253.004	301.386	347.104	366.634
70	152.247	193.082	245.015	294.728	317.809
75	96.763	135.823	194.414	244.127	267.208
80	52.820	90.549	152.690	197.965	219.270
85	16.867	55.483	115.849	156.241	176.215
90	0.000	35.953	88.330	126.058	139.818
95	0.000	32.846	82.559	115.406	123.395
100	0.000	31.071	76.789	105.197	112.298
105	0.000	28.408	71.907	97.207	104.309
110	0.000	26.632	67.024	90.993	98.095
115	0.000	24.413	61.254	85.223	91.881
120	0.000	20.862	55.040	77.233	85.223
125	0.000	17.311	49.713	70.575	77.677
130	0.000	14.204	43.055	63.029	67.912
135	0.000	12.872	34.622	54.596	59.478
140	0.000	10.653	27.076	45.718	50.601
145	0.000	8.433	20.862	35.509	40.392
150	0.000	6.214	15.979	27.076	31.071
155	0.000	4.883	12.872	19.530	22.637
160	0.000	0.000	9.321	14.204	15.979
165	0.000	0.000	6.214	10.209	11.097
170	0.000	0.000	0.000	6.214	6.658
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	355.94	N.A.	12.20
0-30	744.55	N.A.	25.60
0-40	1191.88	N.A.	41.00
0-60	2002.77	N.A.	68.90
0-80	2501.04	N.A.	86.10
0-90	2620.02	N.A.	90.20
10-90	2527.37	N.A.	87.00
20-40	835.93	N.A.	28.80
20-50	1269.8	N.A.	43.70
40-70	1107.28	N.A.	38.10
60-80	498.27	N.A.	17.10
70-80	201.88	N.A.	6.90
80-90	118.98	N.A.	4.10
90-110	146.40	N.A.	5.00
90-120	199.99	N.A.	6.90
90-130	239.47	N.A.	8.20
90-150	278.66	N.A.	9.60
90-180	286.00	N.A.	9.80
110-180	139.60	N.A.	4.80
0-180	2906.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.64
10-20	263.30
20-30	388.60
30-40	447.33
40-50	433.87
50-60	377.02
60-70	296.39
70-80	201.88
80-90	118.98
90-100	80.10
100-110	66.30
110-120	53.59
120-130	39.48
130-140	25.59
140-150	13.60
150-160	5.69
160-170	1.57
170-180	0.09

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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	227	227	227	227	219	219	219	219	205	205	205	192	192	192	181	181	181	175
1	205	195	187	179	198	189	181	174	177	171	165	166	161	156	156	152	148	143
2	187	170	157	145	180	165	152	142	155	145	136	146	137	130	137	130	124	119
3	170	150	134	121	164	145	130	119	137	124	114	129	118	110	121	113	105	100
4	156	133	116	103	150	129	113	101	122	108	98	115	103	94	109	99	91	86
5	144	119	101	89	138	116	99	87	109	95	85	103	91	82	98	88	79	75
6	133	107	90	78	128	104	88	77	99	85	74	94	82	72	89	78	70	66
7	123	97	80	69	119	95	79	68	90	76	66	86	73	64	82	71	63	58
8	115	89	73	61	111	87	71	61	83	69	59	79	67	58	75	64	56	52
9	107	82	66	55	104	80	65	55	76	63	53	73	61	52	69	59	51	47
10	101	75	60	50	97	74	59	50	70	58	49	67	56	47	65	54	46	43

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UGR TABLE - CORRECTED

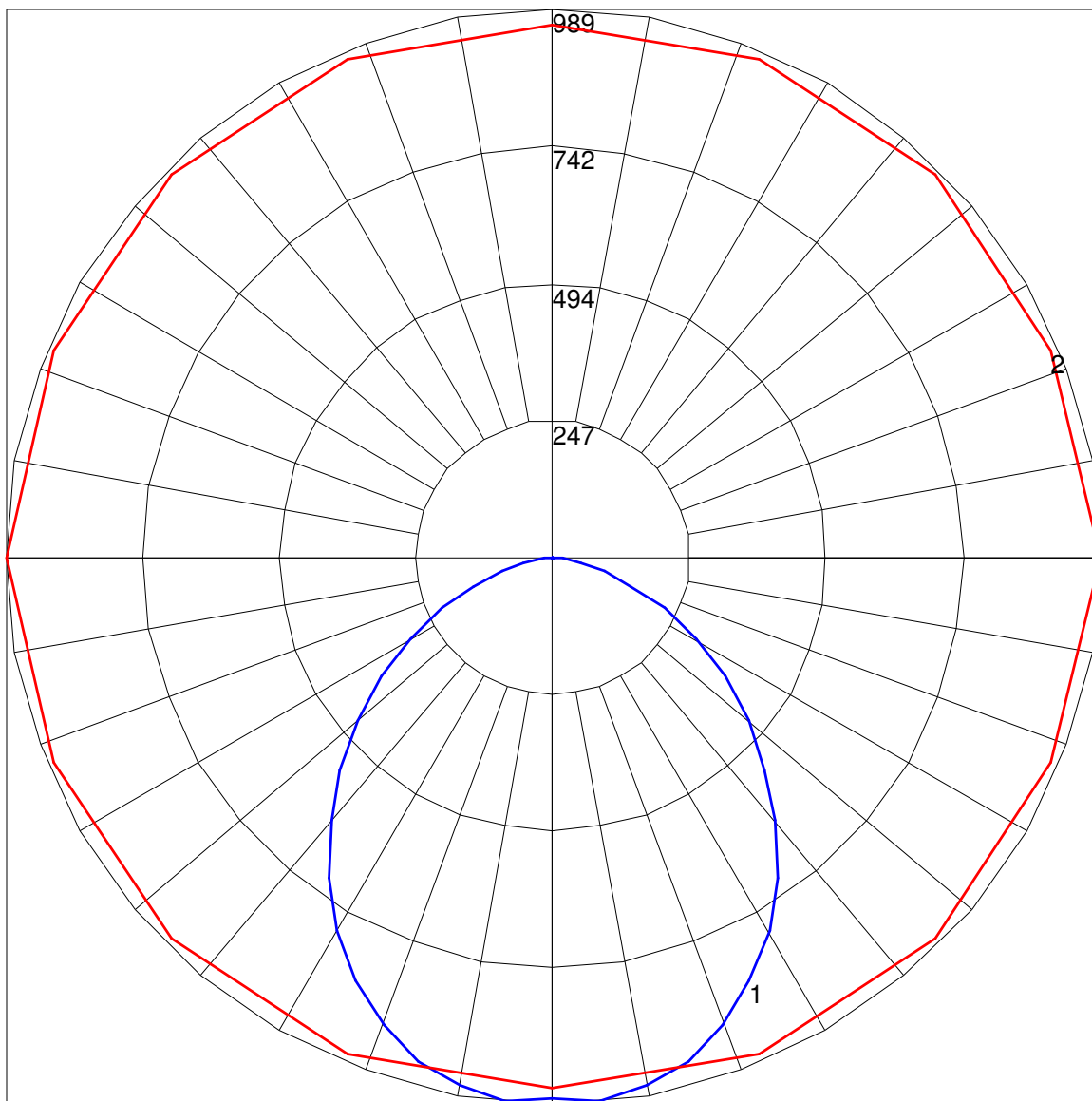
Reflectances

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	17.7	19.1	18.2	19.6	20.2	19.0	20.4	19.5	20.9	21.5
	3H	19.1	20.4	19.6	20.9	21.5	21.4	22.7	21.9	23.2	23.8
	4H	19.5	20.7	20.1	21.3	21.9	22.5	23.7	23.0	24.2	24.9
	6H	19.8	20.9	20.3	21.5	22.1	23.6	24.7	24.2	25.3	25.9
	8H	19.8	20.9	20.4	21.5	22.1	24.1	25.2	24.7	25.8	26.4
	12H	19.9	20.9	20.5	21.5	22.1	24.7	25.8	25.3	26.3	27.0
4H	2H	18.3	19.5	18.8	20.0	20.7	19.4	20.6	19.9	21.1	21.7
	3H	19.9	20.9	20.5	21.5	22.2	22.0	23.0	22.5	23.6	24.2
	4H	20.5	21.4	21.1	22.0	22.7	23.2	24.2	23.8	24.7	25.4
	6H	20.9	21.7	21.5	22.3	23.0	24.5	25.3	25.1	25.9	26.6
	8H	21.0	21.8	21.6	22.4	23.0	25.1	25.9	25.8	26.5	27.2
	12H	21.0	21.7	21.7	22.4	23.1	25.8	26.5	26.5	27.2	27.9
8H	4H	20.9	21.7	21.5	22.3	23.0	23.4	24.1	24.0	24.8	25.4
	6H	21.5	22.1	22.1	22.8	23.5	24.8	25.5	25.5	26.1	26.8
	8H	21.7	22.2	22.3	22.9	23.6	25.6	26.2	26.2	26.8	27.5
	12H	21.8	22.3	22.4	23.0	23.7	26.4	27.0	27.1	27.6	28.4
12H	4H	21.0	21.7	21.6	22.3	23.0	23.4	24.1	24.0	24.7	25.4
	6H	21.6	22.2	22.3	22.9	23.6	24.8	25.4	25.5	26.0	26.8
	8H	21.9	22.4	22.5	23.1	23.8	25.6	26.2	26.3	26.8	27.6

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 988.937 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.)