



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-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] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-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	2830
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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)	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	10191	8224	7775
55	8640	6894	6967
65	6785	5891	6329
75	4672	4815	5615
85	2088	4085	4922

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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	954.860	954.860	954.860	954.860	954.860
5	963.073	950.970	950.538	948.376	937.137
10	946.647	935.841	936.705	934.112	923.737
15	920.279	909.905	912.499	909.905	901.260
20	876.189	868.408	876.189	872.299	863.221
25	821.724	818.699	825.615	825.182	811.782
30	761.640	762.937	770.718	770.718	754.292
35	688.156	698.531	702.421	703.718	686.860
40	608.188	623.750	620.292	627.208	618.563
45	529.950	543.782	542.917	555.453	553.292
50	449.982	462.517	472.459	493.640	497.962
55	367.852	383.414	405.459	437.014	451.278
60	290.478	309.497	347.104	386.007	404.594
65	216.129	246.388	293.504	338.027	357.046
70	148.265	188.033	238.607	287.020	309.497
75	94.232	132.271	189.329	237.742	260.220
80	51.439	88.181	148.697	192.788	213.536
85	16.426	54.032	112.820	152.155	171.607
90	0.000	35.013	86.020	122.762	136.162
95	0.000	31.987	80.400	112.387	120.168
100	0.000	30.258	74.781	102.445	109.362
105	0.000	27.665	70.026	94.665	101.581
110	0.000	25.936	65.271	88.613	95.529
115	0.000	23.774	59.652	82.994	89.478
120	0.000	20.316	53.600	75.213	82.994
125	0.000	16.858	48.413	68.729	75.645
130	0.000	13.832	41.929	61.381	66.136
135	0.000	12.536	33.716	53.168	57.923
140	0.000	10.374	26.368	44.523	49.278
145	0.000	8.213	20.316	34.581	39.336
150	0.000	6.052	15.561	26.368	30.258
155	0.000	4.755	12.536	19.019	22.045
160	0.000	0.000	9.077	13.832	15.561
165	0.000	0.000	6.052	9.942	10.806
170	0.000	0.000	0.000	6.052	6.484
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	346.63	N.A.	12.20
0-30	725.08	N.A.	25.60
0-40	1160.7	N.A.	41.00
0-60	1950.39	N.A.	68.90
0-80	2435.63	N.A.	86.10
0-90	2551.49	N.A.	90.20
10-90	2461.27	N.A.	87.00
20-40	814.07	N.A.	28.80
20-50	1236.6	N.A.	43.70
40-70	1078.33	N.A.	38.10
60-80	485.24	N.A.	17.10
70-80	196.60	N.A.	6.90
80-90	115.87	N.A.	4.10
90-110	142.57	N.A.	5.00
90-120	194.76	N.A.	6.90
90-130	233.21	N.A.	8.20
90-150	271.37	N.A.	9.60
90-180	278.52	N.A.	9.80
110-180	135.95	N.A.	4.80
0-180	2830.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	90.22
10-20	256.41
20-30	378.44
30-40	435.63
40-50	422.53
50-60	367.16
60-70	288.64
70-80	196.60
80-90	115.87
90-100	78.01
100-110	64.56
110-120	52.19
120-130	38.45
130-140	24.92
140-150	13.24
150-160	5.54
160-170	1.53
170-180	0.08

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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	50	50	50	50	49	49	49	49	46	46	46	43	43	43	40	40	40	39
1	46	43	42	40	44	42	40	39	39	38	37	37	36	35	35	34	33	32
2	42	38	35	32	40	37	34	32	34	32	30	32	31	29	30	29	28	26
3	38	33	30	27	36	32	29	26	30	28	25	29	26	24	27	25	23	22
4	35	30	26	23	33	29	25	22	27	24	22	26	23	21	24	22	20	19
5	32	26	23	20	31	26	22	19	24	21	19	23	20	18	22	20	18	17
6	30	24	20	17	28	23	20	17	22	19	17	21	18	16	20	17	16	15
7	27	22	18	15	26	21	18	15	20	17	15	19	16	14	18	16	14	13
8	26	20	16	14	25	19	16	13	18	15	13	18	15	13	17	14	13	12
9	24	18	15	12	23	18	14	12	17	14	12	16	14	12	15	13	11	11
10	22	17	13	11	22	16	13	11	16	13	11	15	12	11	14	12	10	10

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**UGR TABLE - CORRECTED**

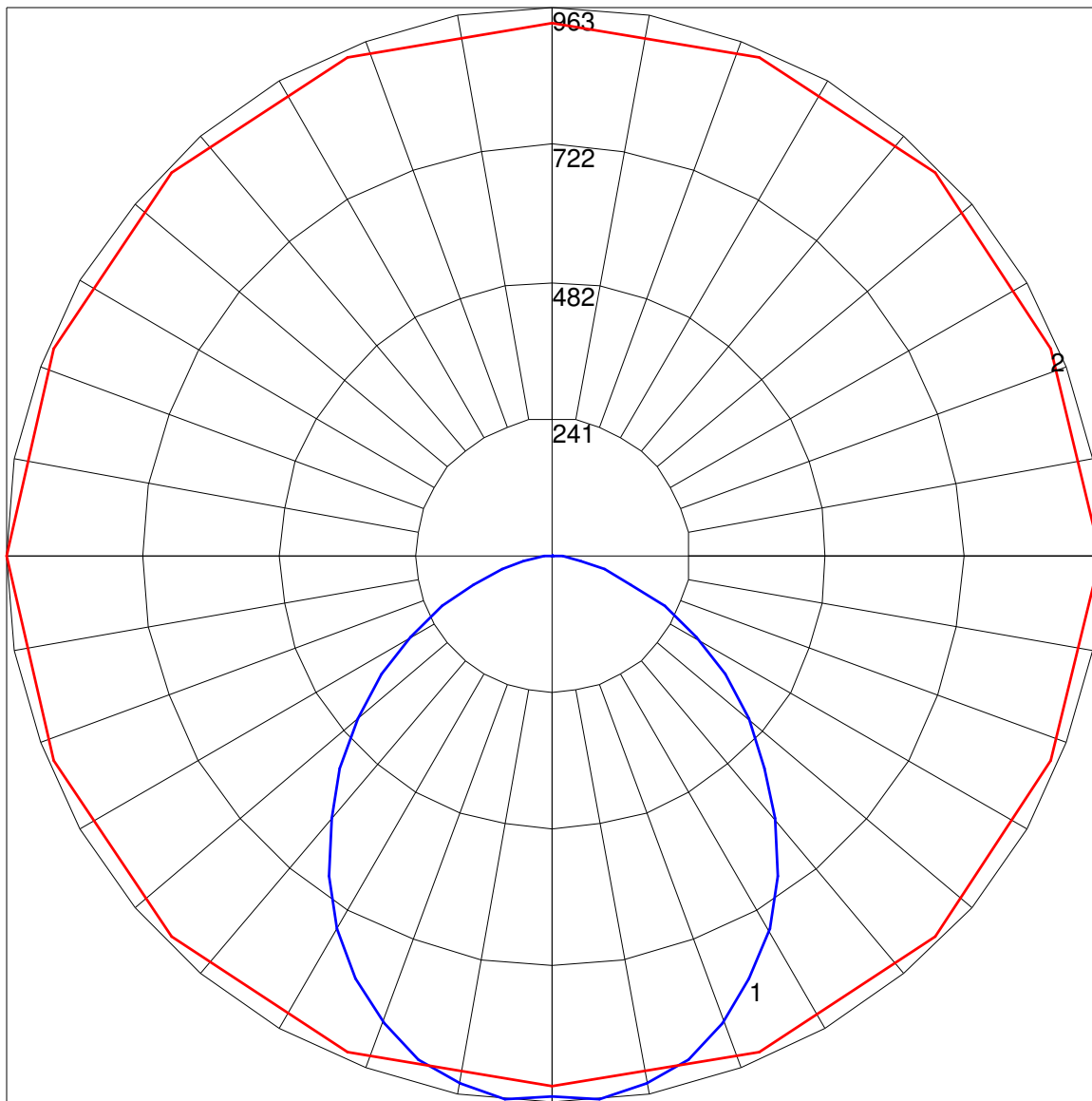
Reflectances

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 = 963.073 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.)