



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-8-L100-840-(L90)-(2)WG-75-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] 01-11-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO.64836

[LUMINAIRE] 8' LED STRIP LUMINAIRE

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] 75S-8-L100-840-(L90)-(2)WG-75-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K CCT

[\_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	8931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	58.2
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)	0.25 ft
Luminous Height	0.08 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13524	11274	10718
55	11518	9579	9738
65	9113	8335	9004
75	6378	7004	8193
85	3050	6259	7493

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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	3013.361	3013.361	3013.361	3013.361	3013.361
5	3039.279	3001.084	2999.720	2992.899	2957.432
10	2987.442	2953.339	2956.067	2947.883	2915.144
15	2904.231	2871.491	2879.676	2871.491	2844.209
20	2765.089	2740.535	2765.089	2752.812	2724.166
25	2593.209	2583.660	2605.486	2604.122	2561.834
30	2403.595	2407.688	2432.242	2432.242	2380.405
35	2171.693	2204.432	2216.710	2220.802	2167.601
40	1919.329	1968.438	1957.525	1979.351	1952.069
45	1672.422	1716.074	1713.346	1752.906	1746.085
50	1420.058	1459.618	1490.993	1557.835	1571.477
55	1160.874	1209.982	1279.553	1379.134	1424.151
60	916.695	976.716	1095.396	1218.167	1276.825
65	682.064	777.553	926.244	1066.749	1126.771
70	467.896	593.396	752.999	905.782	976.716
75	297.380	417.423	597.488	750.271	821.206
80	162.331	278.282	469.260	608.402	673.880
85	51.837	170.516	356.038	480.173	541.559
90	0.000	110.494	271.462	387.413	429.701
95	0.000	100.946	253.728	354.674	379.228
100	0.000	95.489	235.994	323.299	345.125
105	0.000	87.304	220.989	298.744	320.570
110	0.000	81.848	205.983	279.646	301.472
115	0.000	75.027	188.250	261.913	282.375
120	0.000	64.114	169.152	237.358	261.913
125	0.000	53.201	152.782	216.897	238.723
130	0.000	43.652	132.321	193.706	208.712
135	0.000	39.560	106.402	167.788	182.793
140	0.000	32.739	83.212	140.505	155.511
145	0.000	25.918	64.114	109.130	124.136
150	0.000	19.098	49.109	83.212	95.489
155	0.000	15.005	39.560	60.022	69.571
160	0.000	0.000	28.647	43.652	49.109
165	0.000	0.000	19.098	31.375	34.103
170	0.000	0.000	0.000	19.098	20.462
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1093.91	N.A.	12.20
0-30	2288.21	N.A.	25.60
0-40	3662.97	N.A.	41.00
0-60	6155.07	N.A.	68.90
0-80	7686.39	N.A.	86.10
0-90	8052.04	N.A.	90.20
10-90	7767.32	N.A.	87.00
20-40	2569.05	N.A.	28.80
20-50	3902.46	N.A.	43.70
40-70	3403.00	N.A.	38.10
60-80	1531.32	N.A.	17.10
70-80	620.43	N.A.	6.90
80-90	365.65	N.A.	4.10
90-110	449.92	N.A.	5.00
90-120	614.63	N.A.	6.90
90-130	735.97	N.A.	8.20
90-150	856.39	N.A.	9.60
90-180	878.96	N.A.	9.80
110-180	429.04	N.A.	4.80
0-180	8931.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	284.72
10-20	809.19
20-30	1194.29
30-40	1374.76
40-50	1333.41
50-60	1158.69
60-70	910.89
70-80	620.43
80-90	365.65
90-100	246.18
100-110	203.75
110-120	164.71
120-130	121.34
130-140	78.64
140-150	41.79
150-160	17.48
160-170	4.82
170-180	0.26

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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

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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

X=2H	Y=2H	17.9	19.3	18.4	19.8	20.3	20.0	21.5	20.6	22.0	22.5
	3H	19.1	20.3	19.6	20.9	21.5	22.5	23.7	23.0	24.3	24.9
	4H	19.4	20.6	19.9	21.1	21.7	23.6	24.8	24.1	25.3	25.9
	6H	19.6	20.7	20.1	21.2	21.9	24.8	25.9	25.3	26.4	27.1
	8H	19.6	20.7	20.2	21.2	21.9	25.3	26.4	25.9	27.0	27.6
	12H	19.6	20.6	20.2	21.2	21.8	26.0	27.0	26.6	27.6	28.3

### UGR Viewed Endwise

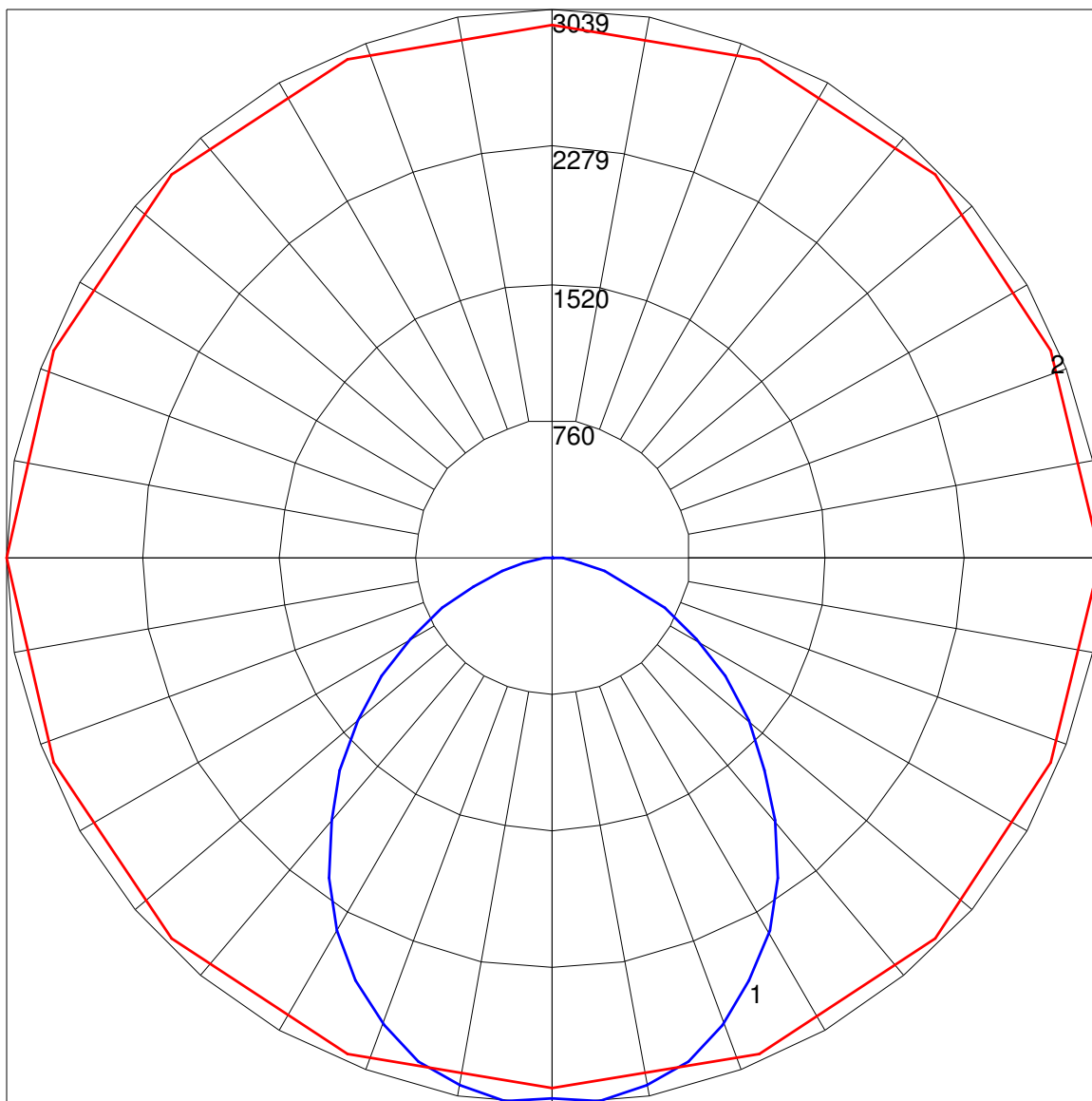
4H	2H	18.7	19.9	19.2	20.4	21.1	20.4	21.6	21.0	22.2	22.8
	3H	20.1	21.2	20.7	21.7	22.4	23.0	24.1	23.6	24.6	25.3
	4H	20.6	21.5	21.2	22.1	22.8	24.3	25.3	24.9	25.9	26.5
	6H	20.9	21.7	21.5	22.3	23.0	25.7	26.5	26.3	27.1	27.8
	8H	20.9	21.7	21.5	22.3	23.0	26.4	27.2	27.0	27.8	28.5
	12H	20.9	21.6	21.6	22.3	23.0	27.1	27.9	27.8	28.5	29.2

8H	4H	21.2	22.0	21.9	22.6	23.3	24.5	25.3	25.1	25.9	26.6
	6H	21.7	22.4	22.3	23.0	23.7	26.0	26.7	26.7	27.3	28.0
	8H	21.8	22.4	22.5	23.1	23.8	26.8	27.4	27.5	28.1	28.8
	12H	21.9	22.4	22.5	23.1	23.8	27.8	28.3	28.4	28.9	29.7

12H	4H	21.4	22.1	22.1	22.8	23.5	24.5	25.2	25.1	25.8	26.5
	6H	22.0	22.6	22.7	23.2	24.0	26.0	26.6	26.7	27.2	28.0
	8H	22.2	22.7	22.8	23.4	24.1	26.9	27.4	27.6	28.1	28.8

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 3039.279 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.)