



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L160-835-DMA_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17956.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 4-AUG-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89" LED STRIP SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFL w/.104"THK FROSTED ACRYLIC LENS

[LUMCAT] 75L-8-L160-835-DMA-DIM-UNV

[_SEARCH_SOURCE TYPE]LED

[_SEARCH_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR,MANUFACTURING,WAREHOUSE

[_SEARCH_MOUNTING]CEILING,SURFACE,SUSPENDED,WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16161
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	133.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	7.44 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	51751	45475	39498
55	44641	37948	32176
65	37585	30585	25585
75	29529	23270	19595
85	20205	14548	13740

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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	7198.507	7198.507	7198.507	7198.507	7198.507
5	7345.000	7182.230	7157.814	7092.706	7035.737
10	7206.645	7080.499	7023.529	6966.559	6881.105
15	6986.906	6885.174	6791.582	6726.474	6608.465
20	6693.920	6596.258	6474.180	6368.379	6234.094
25	6319.548	6217.817	6042.839	5920.762	5741.715
30	5888.208	5766.130	5534.183	5391.759	5163.881
35	5387.690	5253.404	4972.626	4769.163	4557.562
40	4822.064	4679.640	4378.515	4126.222	3906.482
45	4227.953	4052.975	3715.227	3503.626	3226.917
50	3601.288	3450.726	3096.701	2864.753	2649.083
55	2958.346	2864.753	2514.798	2286.920	2132.288
60	2364.235	2282.850	1981.726	1798.609	1668.393
65	1835.233	1737.571	1493.415	1371.338	1249.260
70	1346.922	1224.845	1058.006	956.274	883.028
75	883.028	781.296	695.842	602.249	585.972
80	508.657	423.202	378.440	329.609	337.748
85	203.463	146.493	146.493	122.078	138.355
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2593.46	N.A.	16.00
0-30	5376.44	N.A.	33.30
0-40	8494.32	N.A.	52.60
0-60	13685.59	N.A.	84.70
0-80	15975.26	N.A.	98.90
0-90	16160.77	N.A.	100.00
10-90	15481.75	N.A.	95.80
20-40	5900.85	N.A.	36.50
20-50	8798.53	N.A.	54.40
40-70	6720.33	N.A.	41.60
60-80	2289.67	N.A.	14.20
70-80	760.61	N.A.	4.70
80-90	185.51	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	16160.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	679.02
10-20	1914.44
20-30	2782.98
30-40	3117.88
40-50	2897.67
50-60	2293.6
60-70	1529.06
70-80	760.61
80-90	185.51
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	112	112	112	112	110	110	110	110	105	105	105	100	100	100	96	96	96	94
1	103	99	96	92	101	97	94	91	93	91	88	90	87	85	86	85	83	81
2	95	88	82	77	93	86	81	76	83	78	74	80	76	73	77	74	71	69
3	87	78	71	65	85	76	70	65	74	68	63	71	66	62	69	65	61	59
4	80	70	62	56	78	68	61	56	66	60	55	64	59	54	62	57	54	52
5	74	63	55	49	72	62	54	49	60	53	48	58	52	48	56	51	47	45
6	69	57	49	43	67	56	48	43	54	48	43	53	47	42	51	46	42	40
7	64	52	44	38	62	51	44	38	50	43	38	48	42	38	47	42	38	36
8	60	48	40	35	58	47	40	35	46	39	34	45	39	34	43	38	34	32
9	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29
10	53	41	33	29	51	40	33	29	39	33	28	38	32	28	37	32	28	27

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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

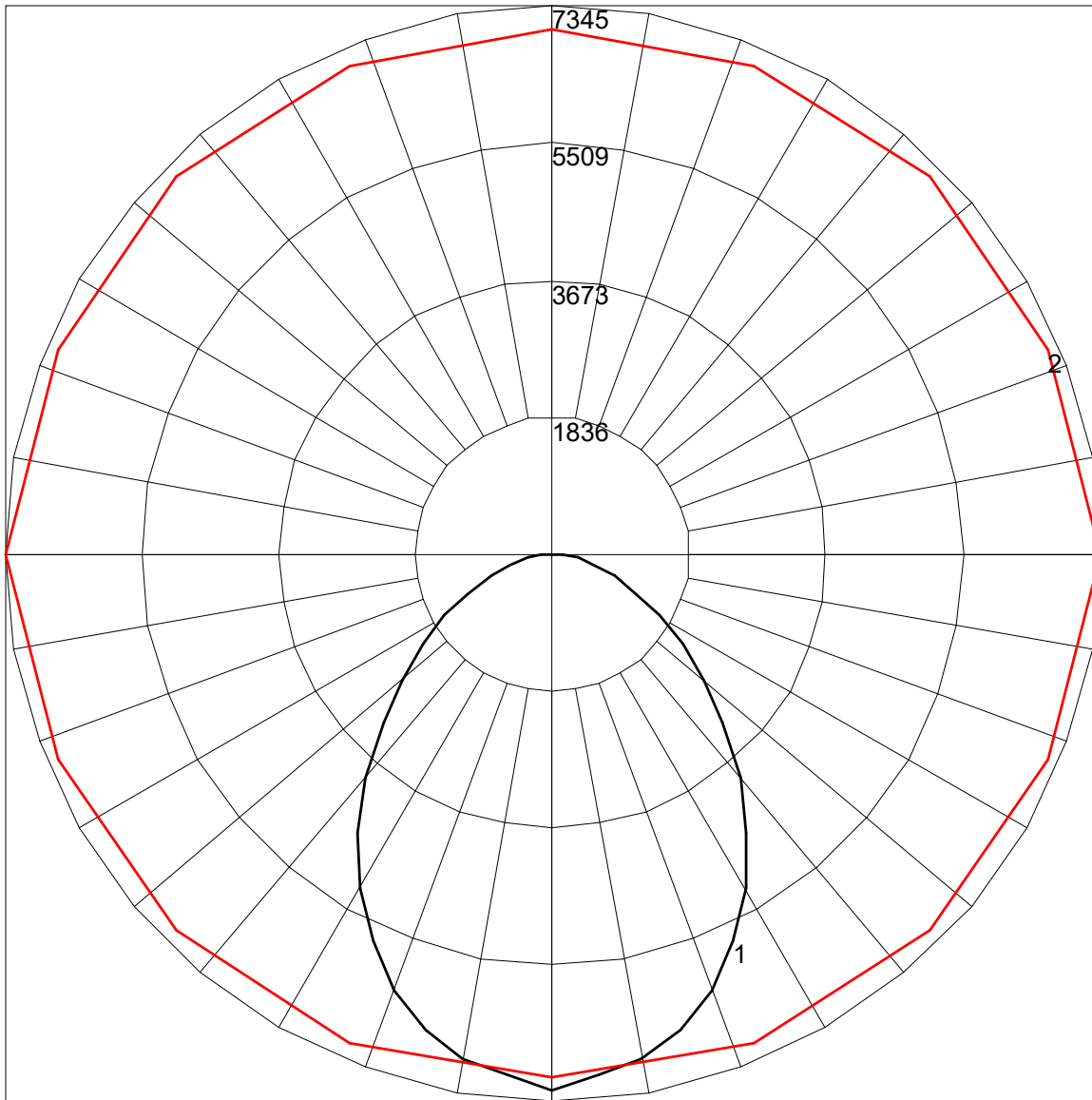
X=2H	Y=2H	25.4	26.9	25.8	27.2	27.5	23.6	25.2	24.0	25.5	25.8
	3H	26.9	28.2	27.2	28.6	28.9	24.9	26.3	25.3	26.6	27.0
	4H	27.4	28.7	27.8	29.0	29.4	25.4	26.7	25.8	27.0	27.4
	6H	27.7	28.9	28.1	29.3	29.7	25.7	26.9	26.1	27.2	27.6
	8H	27.9	29.0	28.3	29.4	29.8	25.8	26.9	26.2	27.3	27.7
	12H	27.9	29.0	28.3	29.4	29.8	25.8	26.9	26.2	27.3	27.7

UGR Viewed Endwise

4H	2H	25.7	27.0	26.1	27.4	27.7	24.3	25.6	24.7	25.9	26.3
	3H	27.4	28.5	27.8	28.9	29.3	25.8	26.9	26.2	27.3	27.7
	4H	28.0	29.0	28.4	29.4	29.8	26.3	27.3	26.7	27.7	28.1
	6H	28.5	29.3	28.9	29.8	30.2	26.7	27.5	27.1	28.0	28.4
	8H	28.6	29.4	29.1	29.9	30.3	26.8	27.6	27.3	28.0	28.5
	12H	28.7	29.4	29.2	29.9	30.4	26.9	27.6	27.4	28.1	28.5
8H	4H	28.1	28.9	28.6	29.4	29.8	26.6	27.4	27.0	27.8	28.3
	6H	28.7	29.3	29.2	29.8	30.3	27.0	27.7	27.5	28.2	28.7
	8H	28.9	29.5	29.4	30.0	30.5	27.2	27.8	27.7	28.3	28.8
	12H	29.0	29.5	29.5	30.0	30.6	27.3	27.8	27.8	28.3	28.9
12H	4H	28.1	28.8	28.6	29.3	29.8	26.6	27.3	27.1	27.8	28.3
	6H	28.7	29.3	29.2	29.8	30.3	27.1	27.7	27.6	28.1	28.7
	8H	28.9	29.4	29.4	29.9	30.5	27.3	27.8	27.8	28.3	28.9

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 7345 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)