



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L80-835-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

[ISSUEDATE] 4-AUG-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44" LED STRIP SURFACE MOUNT LUMINAIRE

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

[LUMCAT] 75L-4-L80-835-DMA-DIM-UNV

[_SEARCH_SOURCETYPE]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	8080
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	66.9
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)	3.70 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	52056	45743	39731
55	44904	38171	32365
65	37806	30765	25735
75	29703	23407	19711
85	20324	14633	13820

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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	3599.030	3599.030	3599.030	3599.030	3599.030
5	3672.272	3590.892	3578.685	3546.133	3517.650
10	3603.099	3540.030	3511.547	3483.064	3440.339
15	3493.236	3442.374	3395.580	3363.028	3304.028
20	3346.752	3297.924	3236.889	3183.992	3116.854
25	3159.578	3108.716	3021.232	2960.197	2870.679
30	2943.921	2882.886	2766.920	2695.712	2581.780
35	2693.678	2626.539	2486.159	2384.434	2278.640
40	2410.882	2339.675	2189.122	2062.983	1953.120
45	2113.845	2026.362	1857.498	1751.704	1613.358
50	1800.532	1725.256	1548.254	1432.288	1324.459
55	1479.081	1432.288	1257.321	1143.389	1066.078
60	1182.044	1141.354	990.801	899.249	834.145
65	917.559	868.731	746.661	685.626	624.591
70	673.419	612.384	528.970	478.107	441.486
75	441.486	390.624	347.899	301.106	292.968
80	254.312	211.588	189.208	164.794	168.863
85	101.725	73.242	73.242	61.035	69.173
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1296.65	N.A.	16.00
0-30	2688.05	N.A.	33.30
0-40	4246.89	N.A.	52.60
0-60	6842.37	N.A.	84.70
0-80	7987.13	N.A.	98.90
0-90	8079.88	N.A.	100.00
10-90	7740.39	N.A.	95.80
20-40	2950.24	N.A.	36.50
20-50	4398.99	N.A.	54.40
40-70	3359.96	N.A.	41.60
60-80	1144.76	N.A.	14.20
70-80	380.28	N.A.	4.70
80-90	92.75	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	8079.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	339.49
10-20	957.16
20-30	1391.4
30-40	1558.84
40-50	1448.75
50-60	1146.73
60-70	764.48
70-80	380.28
80-90	92.75
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	92	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	53	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	27.3	27.6	UGR Viewed Endwise			
	3H	26.9	28.3	27.3	28.6	29.0	23.7	25.2	24.0	25.5
	4H	27.4	28.7	27.8	29.0	29.4	25.0	26.4	25.3	26.7
	6H	27.8	29.0	28.2	29.3	29.7	25.4	26.7	25.8	27.0
	8H	27.9	29.0	28.3	29.4	29.8	25.7	26.9	26.1	27.3
	12H	27.9	29.0	28.4	29.4	29.8	25.8	26.9	26.2	27.3

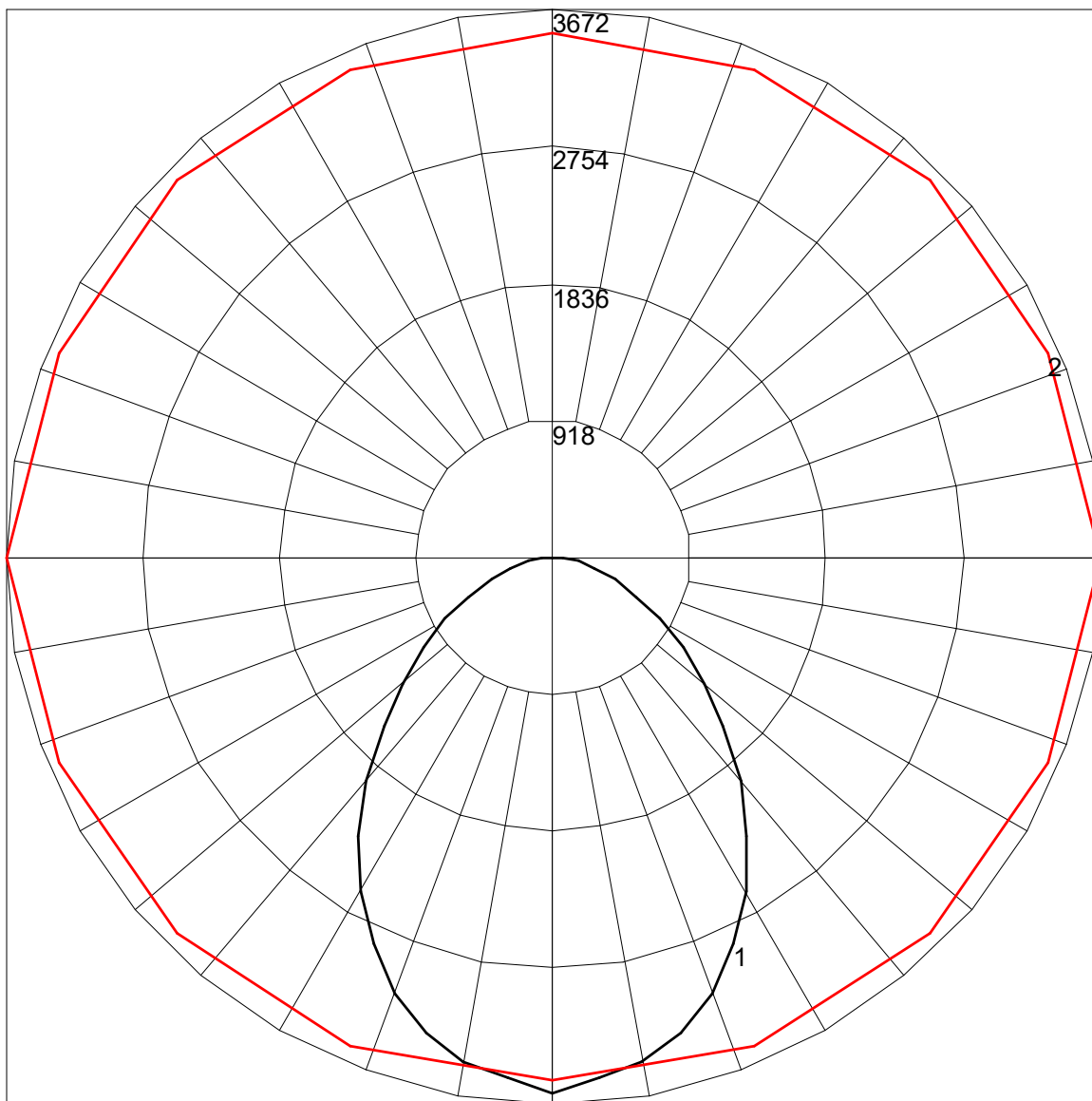
4H	2H	25.7	27.0	26.1	27.4	27.8	24.3	25.6	24.7	25.9
	3H	27.4	28.5	27.8	28.9	29.3	25.8	26.9	26.2	27.3
	4H	28.0	29.0	28.5	29.4	29.9	26.3	27.3	26.7	27.7
	6H	28.5	29.4	29.0	29.8	30.3	26.7	27.5	27.2	28.0
	8H	28.7	29.4	29.1	29.9	30.4	26.8	27.6	27.3	28.1
	12H	28.8	29.5	29.2	29.9	30.4	26.9	27.6	27.4	28.1

8H	4H	28.2	29.0	28.6	29.4	29.9	26.6	27.4	27.1	27.8
	6H	28.7	29.4	29.2	29.9	30.3	27.1	27.7	27.6	28.2
	8H	28.9	29.5	29.4	30.0	30.5	27.2	27.8	27.8	28.3
	12H	29.1	29.6	29.6	30.1	30.6	27.4	27.9	27.9	28.4

12H	4H	28.2	28.9	28.7	29.4	29.8	26.6	27.3	27.1	27.8
	6H	28.7	29.3	29.3	29.8	30.3	27.1	27.7	27.7	28.2
	8H	29.0	29.5	29.5	30.0	30.5	27.3	27.8	27.8	28.3

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 3672.272 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.)