



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-2-L10-835-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] 22-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 22" LED STRIP SURFACE MOUNT LUMINAIRE

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

[LUMCAT] 75L-2-L10-835-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	1023
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	8.3
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)	1.70 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	14355	12615	10957
55	12383	10526	8925
65	10426	8484	7097
75	8191	6455	5436
85	5605	4035	3811

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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	455.726	455.726	455.726	455.726	455.726
5	465.000	454.695	453.150	449.028	445.421
10	456.241	448.255	444.648	441.042	435.632
15	442.330	435.889	429.964	425.842	418.371
20	423.781	417.598	409.870	403.172	394.670
25	400.080	393.640	382.562	374.834	363.499
30	372.773	365.044	350.360	341.343	326.917
35	341.086	332.584	314.809	301.928	288.532
40	305.277	296.260	277.197	261.224	247.313
45	267.665	256.587	235.205	221.809	204.291
50	227.992	218.460	196.047	181.363	167.709
55	187.288	181.363	159.208	144.781	134.992
60	149.676	144.524	125.460	113.867	105.623
65	116.186	110.003	94.546	86.817	79.089
70	85.271	77.543	66.981	60.540	55.903
75	55.903	49.463	44.053	38.127	37.097
80	32.202	26.792	23.958	20.867	21.382
85	12.881	9.274	9.274	7.729	8.759
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	164.19	N.A.	16.00
0-30	340.37	N.A.	33.30
0-40	537.76	N.A.	52.60
0-60	866.41	N.A.	84.70
0-80	1011.37	N.A.	98.90
0-90	1023.11	N.A.	100.00
10-90	980.12	N.A.	95.80
20-40	373.57	N.A.	36.50
20-50	557.02	N.A.	54.40
40-70	425.45	N.A.	41.60
60-80	144.96	N.A.	14.20
70-80	48.15	N.A.	4.70
80-90	11.74	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	1023.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.99
10-20	121.20
20-30	176.19
30-40	197.39
40-50	183.45
50-60	145.20
60-70	96.80
70-80	48.15
80-90	11.74
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	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50
1	55	53	51	49	54	52	50	48	50	48	47	48	46	45	46	45	44	43
2	50	47	44	41	49	46	43	40	44	42	39	42	40	39	41	39	38	37
3	46	41	38	35	45	41	37	34	39	36	34	38	35	33	37	34	33	32
4	43	37	33	30	42	36	33	30	35	32	29	34	31	29	33	30	28	27
5	39	33	29	26	38	33	29	26	32	28	26	31	28	25	30	27	25	24
6	37	30	26	23	36	30	26	23	29	25	23	28	25	22	27	24	22	21
7	34	28	23	20	33	27	23	20	26	23	20	26	22	20	25	22	20	19
8	32	25	21	18	31	25	21	18	24	21	18	24	20	18	23	20	18	17
9	30	23	19	17	29	23	19	17	22	19	17	22	19	16	21	18	16	15
10	28	22	18	15	27	21	18	15	21	17	15	20	17	15	20	17	15	14

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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	20.4	21.9	20.8	22.3	22.6	18.7	20.2	19.0	20.5	20.8
	3H	21.9	23.3	22.3	23.6	24.0	20.0	21.4	20.3	21.7	22.0
	4H	22.4	23.7	22.8	24.1	24.4	20.4	21.7	20.8	22.0	22.4
	6H	22.8	24.0	23.2	24.3	24.7	20.7	21.9	21.1	22.3	22.7
	8H	22.9	24.0	23.3	24.4	24.8	20.8	21.9	21.2	22.3	22.7
	12H	22.9	24.0	23.4	24.4	24.8	20.8	21.9	21.3	22.3	22.7

UGR Viewed Endwise

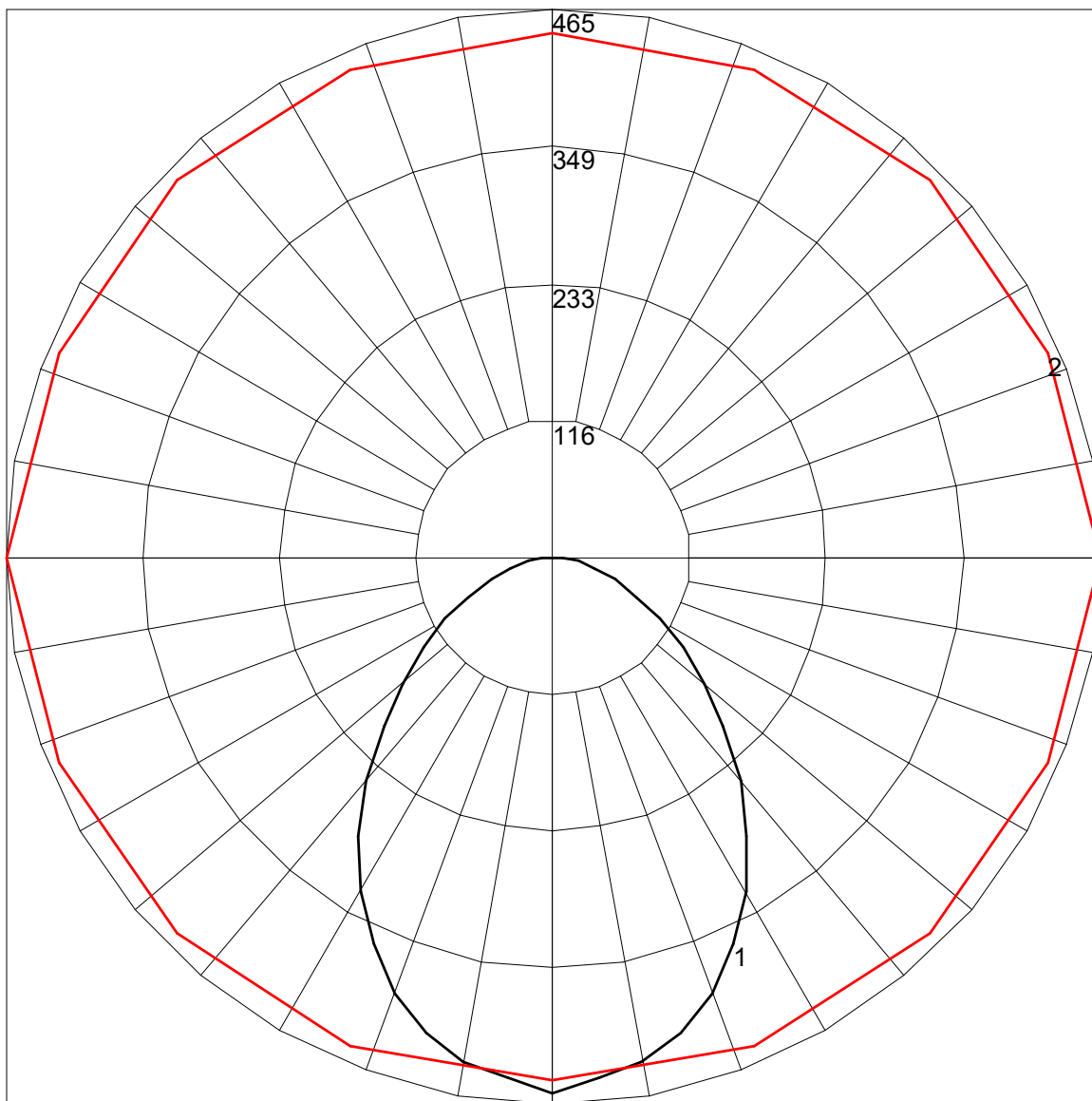
4H	2H	20.7	22.0	21.1	22.4	22.8	19.3	20.6	19.7	20.9	21.3
	3H	22.4	23.5	22.8	23.9	24.3	20.8	21.9	21.2	22.3	22.7
	4H	23.1	24.0	23.5	24.4	24.9	21.3	22.3	21.8	22.7	23.1
	6H	23.5	24.4	24.0	24.8	25.3	21.7	22.5	22.2	23.0	23.5
	8H	23.7	24.4	24.1	24.9	25.4	21.8	22.6	22.3	23.1	23.5
	12H	23.8	24.5	24.2	24.9	25.4	21.9	22.6	22.4	23.1	23.6

8H	4H	23.2	24.0	23.6	24.4	24.9	21.6	22.4	22.1	22.8	23.3
	6H	23.7	24.4	24.2	24.9	25.3	22.1	22.7	22.6	23.2	23.7
	8H	23.9	24.5	24.4	25.0	25.5	22.2	22.8	22.8	23.3	23.8
	12H	24.1	24.6	24.6	25.1	25.6	22.4	22.9	22.9	23.4	23.9

12H	4H	23.2	23.9	23.7	24.4	24.8	21.6	22.3	22.1	22.8	23.3
	6H	23.7	24.3	24.3	24.8	25.3	22.1	22.7	22.7	23.2	23.7
	8H	24.0	24.5	24.5	25.0	25.5	22.3	22.8	22.8	23.3	23.9

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 465 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.)