



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L38-940-DMA-(L30)-DIM-UNV_.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] 15 JUL, 2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44" LED STRIP SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFL w/ FROSTED ACRYLIC LENS

[LUMCAT] 75L-4-L38-940-DMA-(L30)-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	2739
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	25.2
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	17644	15505	13467
55	15220	12938	10970
65	12815	10428	8723
75	10068	7934	6681
85	6889	4960	4684

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1219.902	1219.902	1219.902	1219.902	1219.902
5	1244.728	1217.144	1213.006	1201.973	1192.318
10	1221.282	1199.904	1190.250	1180.595	1166.114
15	1184.043	1166.803	1150.942	1139.909	1119.910
20	1134.392	1117.842	1097.154	1079.224	1056.467
25	1070.949	1053.709	1024.056	1003.368	973.026
30	997.851	977.163	937.856	913.720	875.102
35	913.030	890.274	842.691	808.211	772.352
40	817.176	793.040	742.010	699.254	662.016
45	716.494	686.842	629.605	593.746	546.853
50	610.296	584.781	524.786	485.478	448.930
55	501.339	485.478	426.173	387.555	361.350
60	400.658	386.866	335.835	304.803	282.736
65	311.010	294.459	253.083	232.395	211.707
70	228.258	207.570	179.296	162.056	149.643
75	149.643	132.403	117.922	102.061	99.302
80	86.200	71.718	64.133	55.858	57.237
85	34.480	24.826	24.826	20.688	23.446
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	439.50	N.A.	16.00
0-30	911.12	N.A.	33.30
0-40	1439.5	N.A.	52.60
0-60	2319.24	N.A.	84.70
0-80	2707.26	N.A.	98.90
0-90	2738.7	N.A.	100.00
10-90	2623.63	N.A.	95.80
20-40	999.99	N.A.	36.50
20-50	1491.05	N.A.	54.40
40-70	1138.87	N.A.	41.60
60-80	388.02	N.A.	14.20
70-80	128.90	N.A.	4.70
80-90	31.44	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	2738.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	115.07
10-20	324.43
20-30	471.62
30-40	528.37
40-50	491.06
50-60	388.69
60-70	259.12
70-80	128.90
80-90	31.44
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	106	106	106	106	103	103	103	103	99	99	99	94	94	94	90	90	90	89
1	97	94	90	87	95	92	88	86	88	85	83	84	82	80	81	80	78	76
2	89	83	77	72	87	81	76	72	78	74	70	75	72	68	72	69	67	65
3	82	73	67	61	80	72	66	61	69	64	60	67	63	59	65	61	58	56
4	76	66	58	53	74	64	58	52	62	56	52	60	55	51	58	54	50	49
5	70	59	52	46	68	58	51	46	56	50	45	55	49	45	53	48	44	43
6	65	54	46	41	63	53	46	40	51	45	40	50	44	40	48	43	39	38
7	60	49	41	36	59	48	41	36	47	40	36	46	40	36	44	39	35	34
8	56	45	38	33	55	44	37	33	43	37	32	42	36	32	41	36	32	30
9	53	41	34	30	51	41	34	29	40	34	29	39	33	29	38	33	29	27
10	49	38	31	27	48	38	31	27	37	31	27	36	31	27	35	30	27	25

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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	21.8	23.3	22.2	23.7	24.0	20.1	21.6	20.4	21.9	22.2
	3H	23.3	24.7	23.7	25.0	25.4	21.4	22.8	21.7	23.1	23.4
	4H	23.8	25.1	24.2	25.4	25.8	21.8	23.1	22.2	23.4	23.8
	6H	24.2	25.4	24.6	25.7	26.1	22.1	23.3	22.5	23.7	24.1
	8H	24.3	25.4	24.7	25.8	26.2	22.2	23.3	22.6	23.7	24.1
	12H	24.3	25.4	24.8	25.8	26.2	22.2	23.3	22.7	23.7	24.1

UGR Viewed Endwise

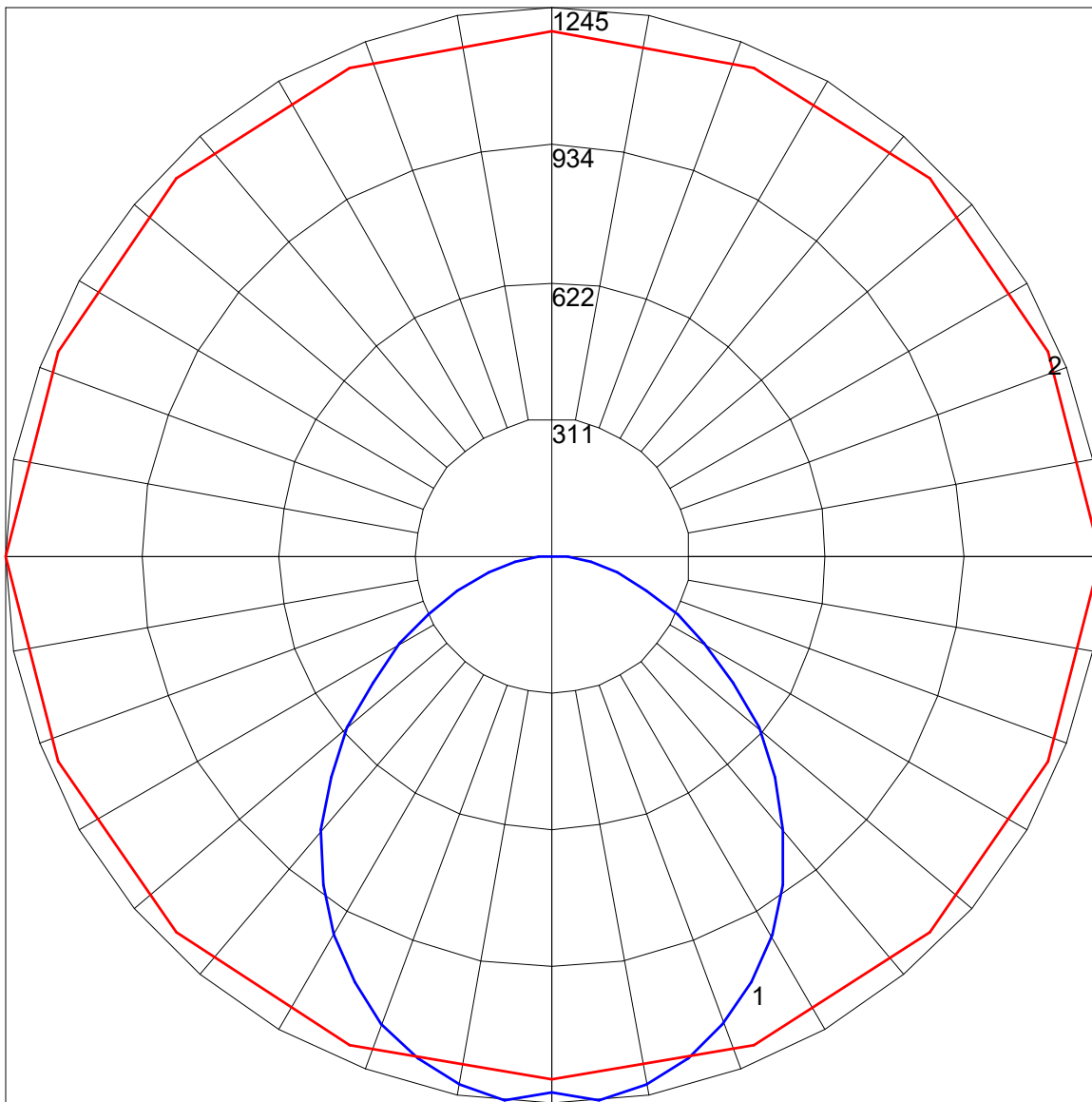
4H	2H	22.1	23.4	22.5	23.8	24.2	20.7	22.0	21.1	22.3	22.7
	3H	23.8	24.9	24.2	25.3	25.7	22.2	23.3	22.6	23.7	24.1
	4H	24.4	25.4	24.9	25.8	26.3	22.7	23.7	23.1	24.1	24.5
	6H	24.9	25.8	25.4	26.2	26.7	23.1	23.9	23.6	24.4	24.8
	8H	25.1	25.8	25.5	26.3	26.8	23.2	24.0	23.7	24.5	24.9
	12H	25.2	25.9	25.6	26.3	26.8	23.3	24.0	23.8	24.5	25.0

8H	4H	24.6	25.4	25.0	25.8	26.3	23.0	23.8	23.5	24.2	24.7
	6H	25.1	25.8	25.6	26.3	26.7	23.5	24.1	24.0	24.6	25.1
	8H	25.3	25.9	25.8	26.4	26.9	23.6	24.2	24.2	24.7	25.2
	12H	25.5	26.0	26.0	26.5	27.0	23.8	24.3	24.3	24.8	25.3

12H	4H	24.6	25.3	25.1	25.8	26.2	23.0	23.7	23.5	24.2	24.7
	6H	25.1	25.7	25.7	26.2	26.7	23.5	24.1	24.1	24.6	25.1
	8H	25.4	25.9	25.9	26.4	26.9	23.7	24.2	24.2	24.7	25.3

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 1244.728 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.)