



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L38-840-DMA-(L30)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 17957.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 15-MAR-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] LENSED STRIP LED LUMINAIRE

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

[MORE] 0-10V DIMMING DRIVER

[LUMCAT] 75L-4-L38-840-DMA-(L30)-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K CCT

[_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	3222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	25.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.26
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	20973	18660	15417
55	18177	15644	12777
65	15373	12995	10054
75	12286	9886	7414
85	8702	6500	4613

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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	1413.692	1413.692	1413.692	1413.692	1413.692
5	1439.930	1412.118	1407.395	1395.850	1379.583
10	1417.365	1386.929	1381.157	1369.088	1348.622
15	1378.533	1345.998	1336.553	1320.285	1297.196
20	1320.285	1289.325	1270.958	1245.770	1218.483
25	1252.067	1221.107	1193.819	1156.562	1129.799
30	1166.007	1133.997	1103.561	1054.759	1016.977
35	1064.205	1032.719	997.561	942.986	891.035
40	962.927	926.719	880.540	818.094	749.876
45	851.679	809.698	757.747	691.628	626.034
50	723.638	692.153	628.657	568.310	517.409
55	598.746	574.608	515.310	456.537	420.854
60	486.449	462.310	411.933	361.032	325.349
65	373.101	360.507	315.378	270.774	244.011
70	270.249	264.477	223.021	186.288	171.070
75	182.615	174.219	146.932	119.120	110.199
80	102.327	93.931	83.436	64.545	60.872
85	43.555	34.109	32.535	23.614	23.089
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	509.06	N.A.	15.80
0-30	1056.38	N.A.	32.80
0-40	1673.24	N.A.	51.90
0-60	2713.26	N.A.	84.20
0-80	3183.03	N.A.	98.80
0-90	3221.86	N.A.	100.00
10-90	3088.48	N.A.	95.90
20-40	1164.17	N.A.	36.10
20-50	1742.34	N.A.	54.10
40-70	1352.13	N.A.	42.00
60-80	469.78	N.A.	14.60
70-80	157.67	N.A.	4.90
80-90	38.83	N.A.	1.20
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	3221.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.39
10-20	375.67
20-30	547.32
30-40	616.86
40-50	578.16
50-60	461.86
60-70	312.11
70-80	157.67
80-90	38.83
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	91	91	90	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	49	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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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

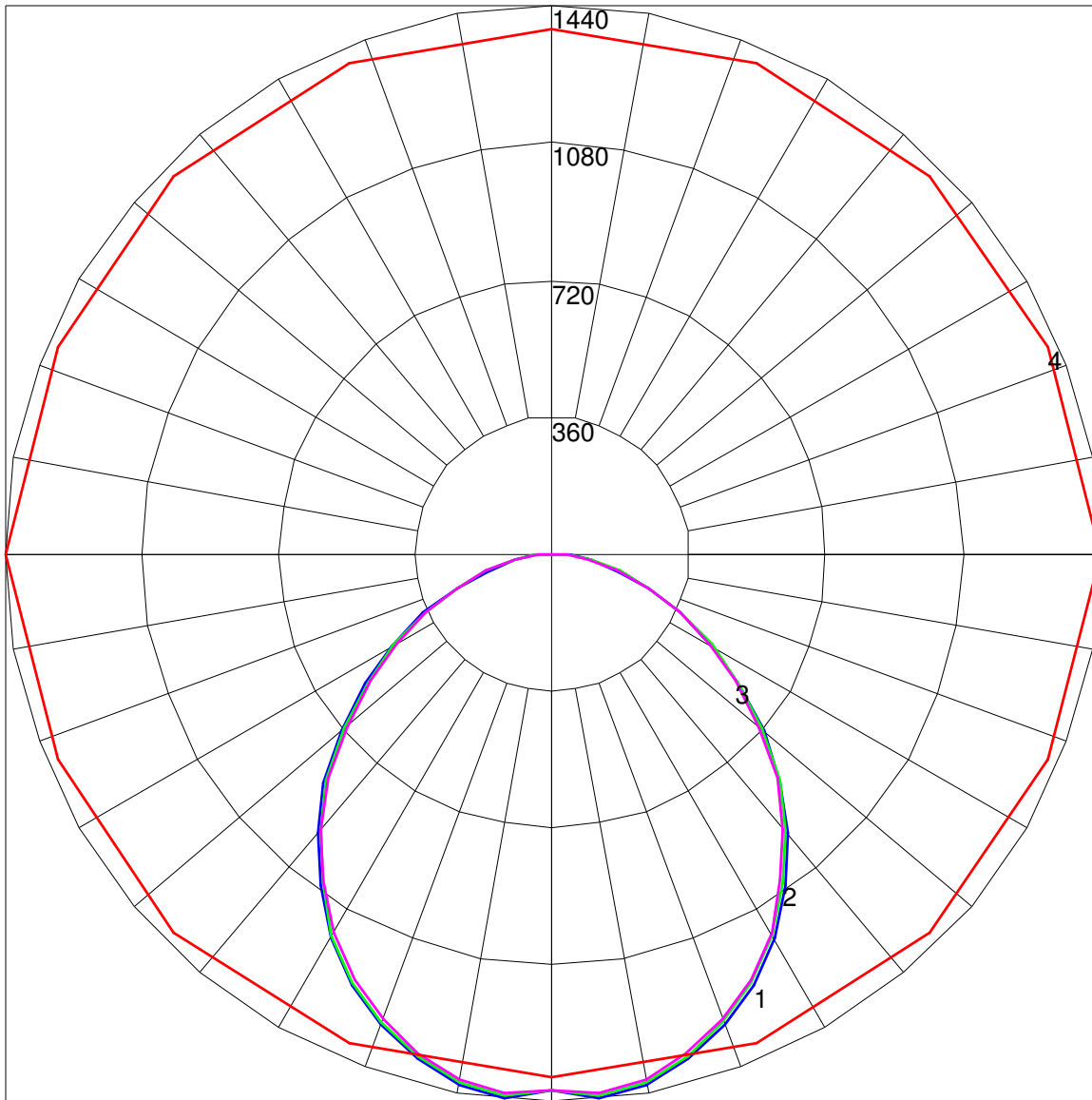
X=2H	Y=2H	22.1	23.6	22.4	23.9	24.3	20.3	21.8	20.6	22.1	22.4
	3H	23.6	25.0	24.0	25.4	25.7	21.5	22.9	21.9	23.2	23.6
	4H	24.2	25.5	24.6	25.8	26.2	21.9	23.2	22.3	23.6	23.9
	6H	24.6	25.8	25.0	26.1	26.5	22.2	23.4	22.6	23.7	24.1
	8H	24.7	25.8	25.1	26.2	26.6	22.2	23.4	22.7	23.8	24.2
	12H	24.7	25.8	25.2	26.2	26.6	22.3	23.4	22.7	23.8	24.2

UGR Viewed Endwise

4H	2H	22.5	23.8	22.9	24.1	24.5	21.0	22.3	21.4	22.6	23.0
	3H	24.2	25.3	24.6	25.7	26.1	22.4	23.5	22.8	23.9	24.3
	4H	24.9	25.9	25.3	26.3	26.7	22.9	23.9	23.3	24.3	24.7
	6H	25.4	26.2	25.9	26.7	27.1	23.3	24.1	23.7	24.5	25.0
	8H	25.6	26.3	26.0	26.8	27.3	23.4	24.1	23.8	24.6	25.1
	12H	25.7	26.4	26.1	26.8	27.3	23.4	24.1	23.9	24.6	25.1
8H	4H	25.1	25.8	25.5	26.3	26.8	23.3	24.0	23.7	24.5	25.0
	6H	25.6	26.3	26.1	26.8	27.2	23.7	24.3	24.2	24.8	25.3
	8H	25.8	26.4	26.3	26.9	27.4	23.8	24.4	24.3	24.9	25.4
	12H	26.0	26.5	26.5	27.0	27.6	23.9	24.4	24.4	24.9	25.5
12H	4H	25.0	25.8	25.5	26.2	26.7	23.3	24.0	23.8	24.5	24.9
	6H	25.6	26.2	26.2	26.7	27.2	23.7	24.3	24.3	24.8	25.3
	8H	25.9	26.4	26.4	26.9	27.5	23.9	24.5	24.4	24.9	25.5

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 1439.93 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)