



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L38-840-AF12125-EM10WRM-DIM-UNV_(EMER MODE ONLY).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17755.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE]04-26-2024

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED PRISMATIC LENS

[LUMCAT] 75L-4-L38-840-AF12125-EM10WRM-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	1490
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.71 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	9969	7708	6166
55	7982	5402	4515
65	5643	3611	3767
75	4288	2757	3522
85	4396	3259	3714

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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	717.770	717.770	717.770	717.770	717.770
5	729.916	716.987	713.069	710.326	708.367
10	720.513	709.151	706.408	703.274	699.748
15	706.408	693.871	687.994	691.520	686.035
20	683.684	671.538	666.445	668.404	666.445
25	650.773	641.370	634.318	626.482	625.306
30	614.728	602.582	581.033	563.794	551.649
35	567.712	550.082	512.861	468.588	432.151
40	498.365	481.909	417.655	349.482	324.407
45	418.046	407.860	323.232	269.556	258.585
50	341.646	324.407	246.048	210.786	200.991
55	271.515	235.861	183.752	161.420	153.584
60	200.600	161.420	135.561	120.281	119.890
65	141.438	112.445	90.505	90.897	94.423
70	97.165	76.008	60.728	70.915	72.482
75	65.822	52.109	42.314	51.717	54.068
80	46.232	37.221	32.911	36.045	37.221
85	22.724	21.157	16.847	19.198	19.198
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	263.34	N.A.	17.70
0-30	554.35	N.A.	37.20
0-40	868.93	N.A.	58.30
0-60	1308.17	N.A.	87.80
0-80	1469.13	N.A.	98.60
0-90	1489.84	N.A.	100.00
10-90	1421.83	N.A.	95.40
20-40	605.59	N.A.	40.60
20-50	865.24	N.A.	58.10
40-70	543.94	N.A.	36.50
60-80	160.96	N.A.	10.80
70-80	56.26	N.A.	3.80
80-90	20.71	N.A.	1.40
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	1489.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	68.00
10-20	195.34
20-30	291.02
30-40	314.58
40-50	259.65
50-60	179.58
60-70	104.70
70-80	56.26
80-90	20.71
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	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	77	72	92	83	76	71	80	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	63	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	32	31

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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	18.2	19.7	18.6	20.0	20.3	15.6	17.0	15.9	17.3	17.7
	3H	19.4	20.7	19.7	21.0	21.4	17.1	18.4	17.4	18.7	19.1
	4H	19.8	21.0	20.2	21.4	21.8	17.7	18.9	18.1	19.3	19.7
	6H	20.3	21.4	20.7	21.7	22.1	18.3	19.4	18.7	19.8	20.2
	8H	20.4	21.5	20.9	21.9	22.3	18.5	19.6	19.0	20.0	20.4
	12H	20.6	21.6	21.0	22.0	22.4	18.7	19.8	19.1	20.1	20.6

UGR Viewed Endwise

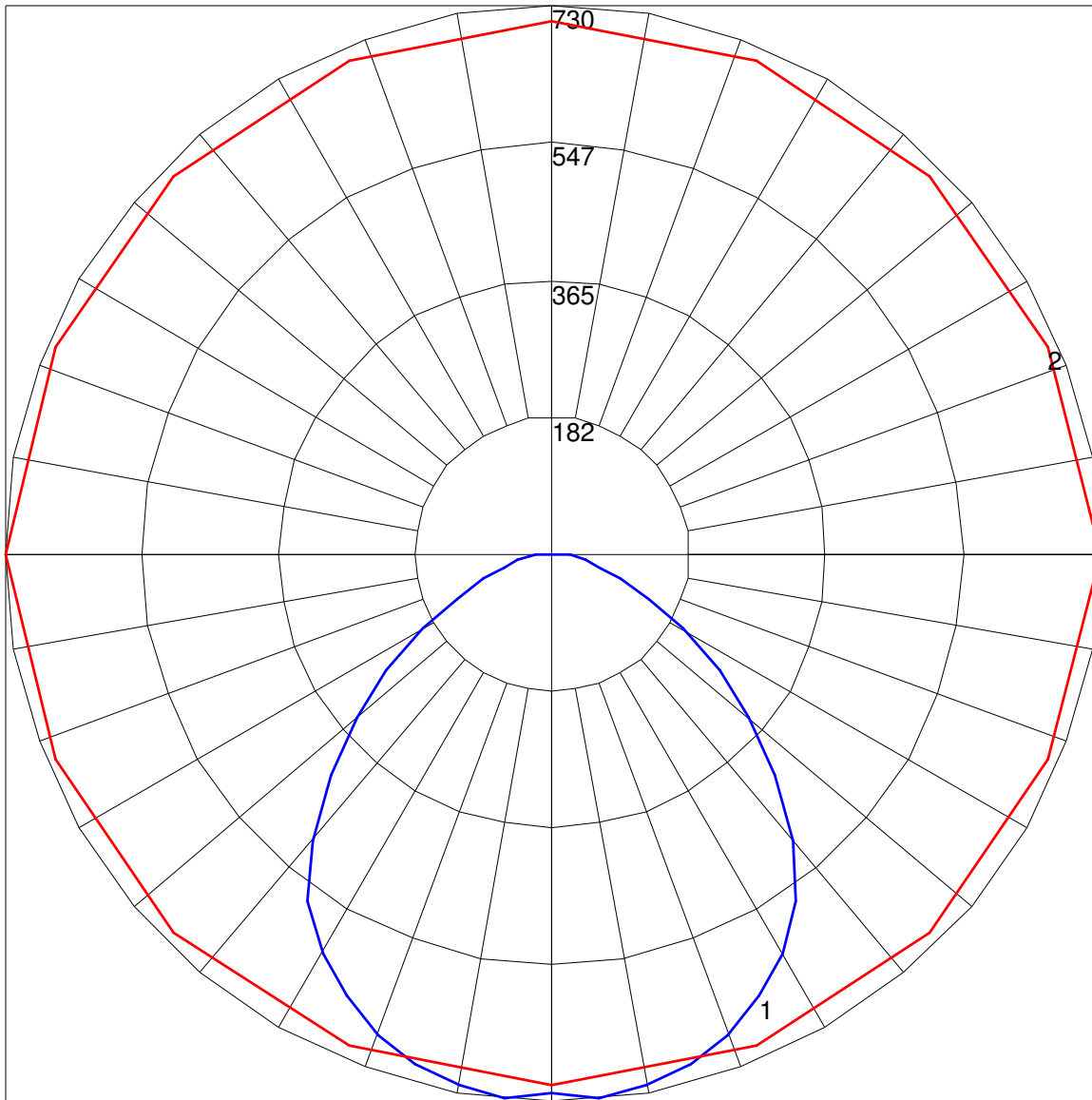
4H	2H	18.3	19.5	18.7	19.9	20.3	16.0	17.2	16.4	17.6	18.0
	3H	19.7	20.7	20.1	21.1	21.5	17.7	18.7	18.1	19.1	19.5
	4H	20.2	21.1	20.6	21.5	22.0	18.5	19.4	19.0	19.9	20.3
	6H	20.8	21.6	21.3	22.1	22.5	19.3	20.1	19.8	20.5	21.0
	8H	21.1	21.8	21.5	22.3	22.7	19.6	20.3	20.0	20.8	21.2
	12H	21.3	22.0	21.8	22.4	22.9	19.8	20.5	20.3	21.0	21.5
8H	4H	20.3	21.0	20.8	21.5	22.0	18.7	19.5	19.2	19.9	20.4
	6H	21.0	21.6	21.5	22.1	22.6	19.7	20.3	20.2	20.8	21.3
	8H	21.4	21.9	21.9	22.4	22.9	20.1	20.6	20.6	21.1	21.6
	12H	21.7	22.2	22.2	22.7	23.3	20.5	20.9	21.0	21.4	22.0
12H	4H	20.3	21.0	20.8	21.5	21.9	18.8	19.5	19.3	19.9	20.4
	6H	21.1	21.6	21.6	22.1	22.6	19.7	20.3	20.3	20.8	21.3
	8H	21.5	22.0	22.0	22.4	23.0	20.2	20.7	20.7	21.2	21.8

Maximum UGR = 23.3

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POLAR GRAPH



Maximum Candela = 729.916 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.)