



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L50-840-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-L50-840-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	1440
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	9634	7449	5959
55	7714	5221	4363
65	5454	3490	3641
75	4144	2664	3404
85	4249	3150	3590

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75L-4-L50-840-AF12125-EM10WRM-DIM-UNV_(EMER MODE ONLY).IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	693.684	693.684	693.684	693.684	693.684
5	705.422	692.927	689.140	686.490	684.596
10	696.334	685.354	682.703	679.674	676.266
15	682.703	670.586	664.907	668.314	663.013
20	660.741	649.003	644.081	645.974	644.081
25	628.935	619.847	613.032	605.459	604.323
30	594.099	582.361	561.536	544.875	533.137
35	548.662	531.622	495.651	452.863	417.649
40	481.641	465.738	403.639	337.754	313.521
45	404.018	394.173	312.385	260.510	249.908
50	330.181	313.521	237.791	203.713	194.247
55	262.403	227.946	177.586	156.003	148.430
60	193.868	156.003	131.012	116.245	115.866
65	136.692	108.672	87.468	87.846	91.254
70	93.905	73.458	58.691	68.535	70.050
75	63.613	50.360	40.894	49.982	52.253
80	44.681	35.972	31.806	34.836	35.972
85	21.962	20.447	16.282	18.554	18.554
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75L-4-L50-840-AF12125-EM10WRM-DIM-UNV_(EMER MODE ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	254.50	N.A.	17.70
0-30	535.75	N.A.	37.20
0-40	839.77	N.A.	58.30
0-60	1264.27	N.A.	87.80
0-80	1419.83	N.A.	98.60
0-90	1439.84	N.A.	100.00
10-90	1374.12	N.A.	95.40
20-40	585.27	N.A.	40.60
20-50	836.21	N.A.	58.10
40-70	525.69	N.A.	36.50
60-80	155.56	N.A.	10.80
70-80	54.37	N.A.	3.80
80-90	20.01	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	1439.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.72
10-20	188.78
20-30	281.25
30-40	304.02
40-50	250.94
50-60	173.56
60-70	101.19
70-80	54.37
80-90	20.01
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L50-840-AF12125-EM10WRM-DIM-UNV_(EMER MODE ONLY).IES

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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L50-840-AF12125-EM10WRM-DIM-UNV_(EMER MODE ONLY).IES

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	18.1	19.6	18.5	19.9	20.2	15.5	16.9	15.8	17.2	17.6
	3H	19.3	20.6	19.6	20.9	21.3	17.0	18.3	17.3	18.6	19.0
	4H	19.7	20.9	20.1	21.3	21.7	17.6	18.8	18.0	19.2	19.6
	6H	20.2	21.3	20.6	21.6	22.0	18.2	19.3	18.6	19.7	20.1
	8H	20.3	21.4	20.8	21.8	22.2	18.4	19.5	18.9	19.9	20.3
	12H	20.5	21.5	20.9	21.9	22.3	18.6	19.7	19.0	20.0	20.5

UGR Viewed Endwise

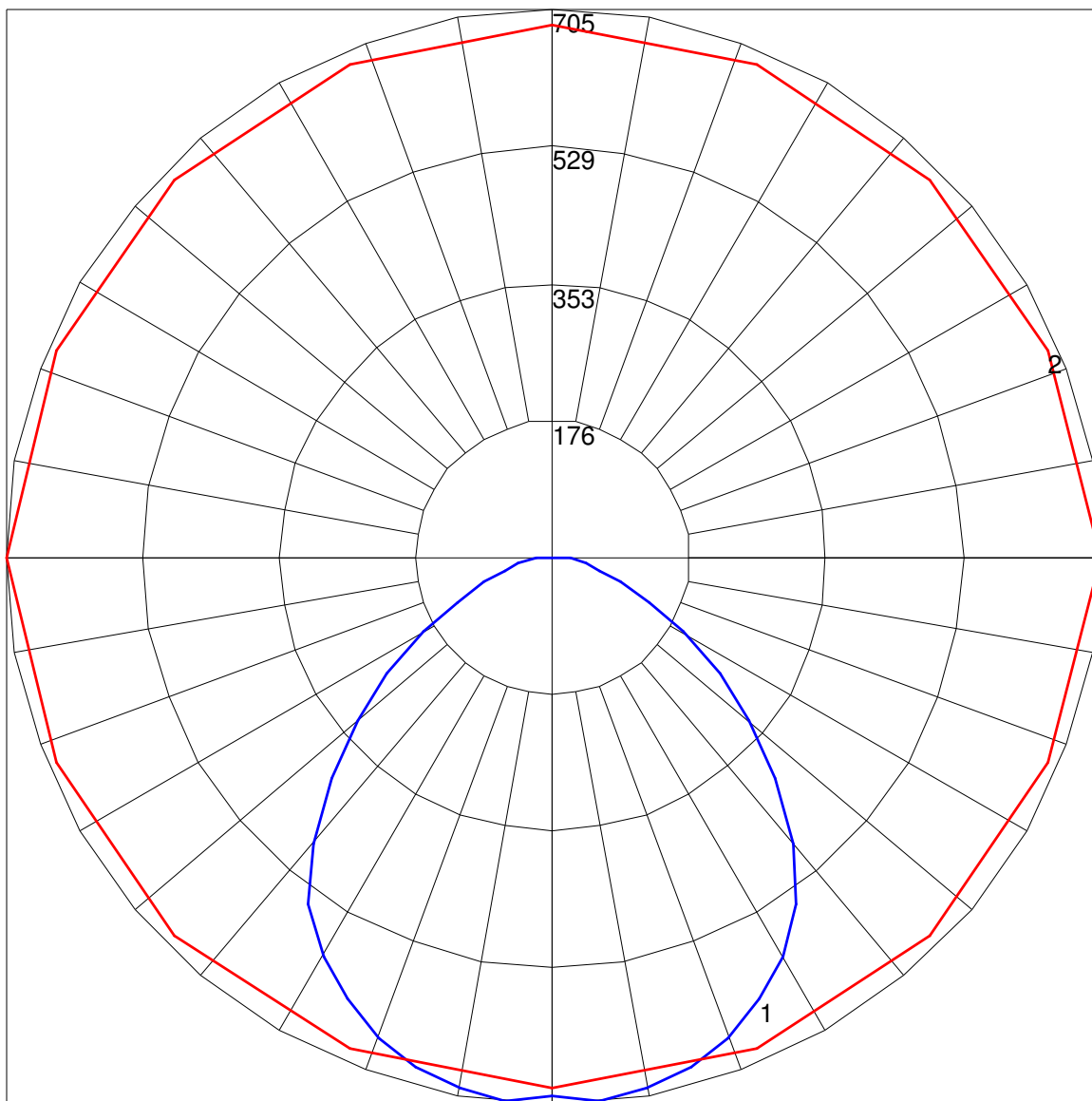
4H	2H	18.2	19.4	18.6	19.8	20.2	15.9	17.1	16.3	17.5	17.9
	3H	19.6	20.6	20.0	21.0	21.4	17.6	18.6	18.0	19.0	19.4
	4H	20.1	21.0	20.5	21.4	21.9	18.4	19.3	18.9	19.8	20.2
	6H	20.7	21.5	21.2	22.0	22.4	19.2	20.0	19.7	20.4	20.9
	8H	21.0	21.7	21.4	22.2	22.6	19.5	20.2	19.9	20.7	21.1
	12H	21.2	21.9	21.7	22.3	22.8	19.7	20.4	20.2	20.9	21.4
8H	4H	20.2	20.9	20.7	21.4	21.9	18.6	19.4	19.1	19.8	20.3
	6H	20.9	21.5	21.4	22.0	22.5	19.6	20.2	20.1	20.7	21.2
	8H	21.3	21.8	21.8	22.3	22.8	20.0	20.5	20.5	21.0	21.5
	12H	21.6	22.1	22.1	22.6	23.2	20.4	20.8	20.9	21.3	21.9
12H	4H	20.2	20.9	20.7	21.4	21.8	18.7	19.4	19.2	19.8	20.3
	6H	21.0	21.5	21.5	22.0	22.5	19.6	20.2	20.2	20.7	21.2
	8H	21.4	21.9	21.9	22.3	22.9	20.1	20.6	20.6	21.1	21.7

Maximum UGR = 23.2

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L50-840-AF12125-EM10WRM-DIM-UNV_(EMER MODE ONLY).IES

POLAR GRAPH



Maximum Candela = 705.422 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.)