



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L50-840-AF12125-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 17757.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 04-07-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] LED (2 BOARDS) SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-4-L50-840-AF12125-EM10W-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	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)	1.26
Spacing Criterion (90-270)	1.14
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	9881	7364	5714
55	7924	5298	4304
65	5477	3481	3591
75	4509	2917	3661
85	3933	2961	3491

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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	692.132	692.132	692.132	692.132	692.132
5	701.954	689.619	688.249	687.563	687.335
10	696.244	684.365	682.081	678.655	675.457
15	681.853	669.746	670.431	668.147	664.492
20	660.838	648.274	651.472	648.959	644.848
25	631.142	623.147	619.721	609.213	598.706
30	590.482	585.685	564.670	536.345	514.645
35	542.056	531.777	493.858	437.437	410.482
40	485.635	465.761	399.975	331.447	313.173
45	414.365	395.178	308.832	251.954	239.619
50	338.071	307.919	239.162	197.132	187.538
55	269.543	222.716	180.228	155.558	146.421
60	198.959	155.102	127.690	121.066	113.985
65	137.284	108.959	87.259	91.827	90.000
70	96.624	75.609	59.162	70.127	71.269
75	69.213	55.279	44.772	52.081	56.193
80	47.284	38.376	33.350	36.548	39.746
85	20.330	21.701	15.305	18.731	18.046
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	254.75	N.A.	17.70
0-30	536.54	N.A.	37.30
0-40	837.86	N.A.	58.20
0-60	1259.91	N.A.	87.50
0-80	1419.53	N.A.	98.60
0-90	1440.06	N.A.	100.00
10-90	1374.42	N.A.	95.40
20-40	583.11	N.A.	40.50
20-50	832.09	N.A.	57.80
40-70	524.23	N.A.	36.40
60-80	159.62	N.A.	11.10
70-80	57.44	N.A.	4.00
80-90	20.53	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	1440.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	65.63
10-20	189.11
20-30	281.79
30-40	301.32
40-50	248.97
50-60	173.08
60-70	102.18
70-80	57.44
80-90	20.53
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	97	100	97	94	96	94	92	92	90	89	87
2	102	94	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	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	57	52	47	45
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41
8	65	53	45	40	64	52	45	39	51	44	39	50	43	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	39	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	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

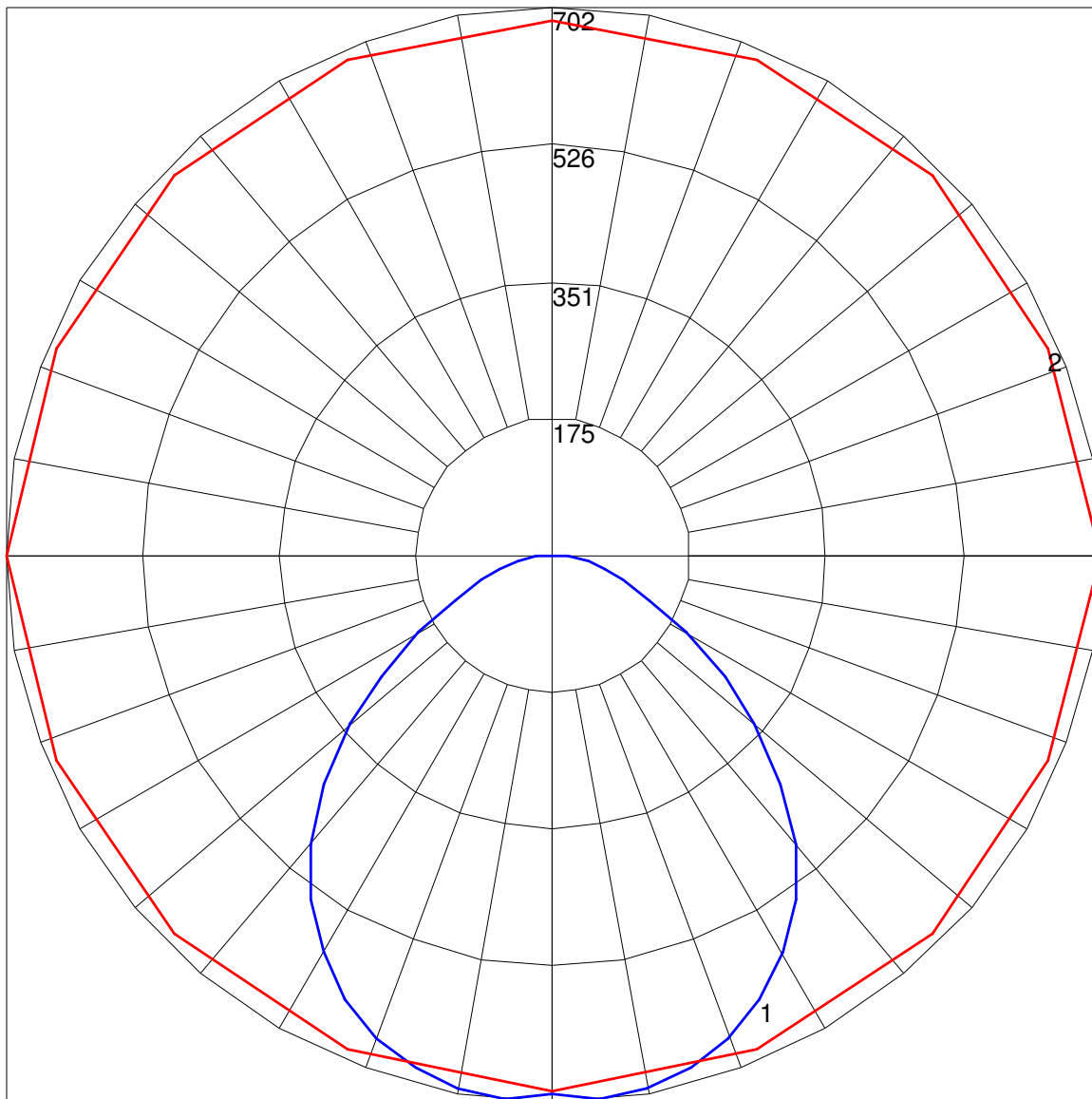
X=2H	Y=2H	18.1	19.5	18.4	19.8	20.2	15.6	17.0	15.9	17.3	17.6
	3H	19.3	20.6	19.6	20.9	21.3	17.1	18.4	17.4	18.7	19.1
	4H	19.8	21.0	20.2	21.4	21.8	17.8	19.0	18.2	19.3	19.7
	6H	20.3	21.4	20.7	21.8	22.2	18.4	19.6	18.8	19.9	20.3
	8H	20.5	21.6	20.9	21.9	22.4	18.7	19.8	19.1	20.1	20.6
	12H	20.6	21.6	21.0	22.0	22.5	18.9	19.9	19.3	20.3	20.7

UGR Viewed Endwise

4H	2H	18.2	19.4	18.6	19.8	20.1	16.0	17.2	16.4	17.6	17.9
	3H	19.6	20.6	20.0	21.0	21.4	17.7	18.7	18.1	19.1	19.5
	4H	20.2	21.1	20.7	21.6	22.0	18.6	19.5	19.0	19.9	20.3
	6H	20.9	21.7	21.3	22.1	22.6	19.4	20.2	19.9	20.6	21.1
	8H	21.2	21.9	21.6	22.4	22.8	19.7	20.5	20.2	20.9	21.4
	12H	21.4	22.0	21.9	22.5	23.0	20.0	20.6	20.5	21.1	21.6
8H	4H	20.3	21.1	20.8	21.5	22.0	18.8	19.6	19.3	20.0	20.5
	6H	21.1	21.8	21.6	22.2	22.7	19.8	20.4	20.3	20.9	21.4
	8H	21.5	22.1	22.0	22.6	23.1	20.2	20.8	20.8	21.3	21.8
	12H	21.8	22.3	22.3	22.8	23.4	20.6	21.1	21.1	21.6	22.1
12H	4H	20.4	21.0	20.8	21.5	22.0	18.9	19.5	19.4	20.0	20.5
	6H	21.2	21.7	21.7	22.2	22.7	19.9	20.4	20.4	20.9	21.5
	8H	21.6	22.1	22.1	22.6	23.1	20.4	20.9	20.9	21.4	21.9

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 701.954 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.)