



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-840-(L37)-EM10WLP-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 06-08-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-840-(L37)-EM10WLP-DIM-UNV(EMER MODE)

[LAMPCAT] HLM 80 CRI 4000K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1550
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5420	4583	4575
55	4474	3922	4028
65	3684	3294	3393
75	2489	2707	2780
85	1461	2325	2280

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	496.445	496.445	496.445	496.445	496.445
5	501.896	494.550	494.787	493.602	488.626
10	493.602	487.441	488.626	487.915	483.412
15	479.147	474.645	477.962	479.384	474.645
20	457.346	456.161	461.848	464.218	461.374
25	431.754	433.412	441.469	446.919	444.787
30	402.370	404.739	418.483	426.777	426.303
35	366.588	370.853	390.758	402.370	404.028
40	328.436	331.517	356.635	374.171	378.199
45	283.412	291.232	320.142	343.365	349.052
50	236.730	249.289	284.597	309.953	317.062
55	191.943	208.294	248.104	274.645	284.834
60	154.502	169.668	213.033	239.573	250.237
65	118.720	135.308	180.332	204.502	213.744
70	83.175	105.450	149.289	170.379	179.384
75	51.185	79.621	120.616	140.521	148.341
80	28.436	54.976	96.209	114.692	119.668
85	12.085	37.915	76.777	92.654	95.972
90	1.659	26.066	59.479	73.460	77.962
95	0.237	17.773	47.630	58.294	63.033
100	0.000	11.611	36.967	47.630	51.422
105	0.000	8.294	28.673	38.863	41.943
110	0.000	5.687	22.038	31.754	34.360
115	0.000	4.739	18.009	26.540	28.436
120	0.000	3.555	13.744	21.801	23.697
125	0.000	2.133	10.190	17.299	19.431
130	0.000	1.422	7.346	13.507	15.403
135	0.000	0.711	5.450	10.664	12.085
140	0.000	0.711	3.791	8.294	9.479
145	0.000	0.000	2.370	5.213	6.635
150	0.000	0.000	1.659	3.791	4.739
155	0.000	0.000	1.185	1.896	3.081
160	0.000	0.000	0.474	1.422	1.659
165	0.000	0.000	0.000	0.474	0.711
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75R-4-L50-840-(L37)-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	181.54	N.A.	11.70
0-30	384.31	N.A.	24.80
0-40	626.29	N.A.	40.40
0-60	1088.76	N.A.	70.20
0-80	1376.62	N.A.	88.80
0-90	1448.97	N.A.	93.50
10-90	1401.97	N.A.	90.50
20-40	444.75	N.A.	28.70
20-50	689.94	N.A.	44.50
40-70	632.98	N.A.	40.80
60-80	287.85	N.A.	18.60
70-80	117.35	N.A.	7.60
80-90	72.35	N.A.	4.70
90-110	69.04	N.A.	4.50
90-120	84.87	N.A.	5.50
90-130	93.86	N.A.	6.10
90-150	100.27	N.A.	6.50
90-180	100.94	N.A.	6.50
110-180	31.90	N.A.	2.10
0-180	1549.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.00
10-20	134.54
20-30	202.78
30-40	241.98
40-50	245.18
50-60	217.29
60-70	170.50
70-80	117.35
80-90	72.35
90-100	43.08
100-110	25.97
110-120	15.83
120-130	8.99
130-140	4.54
140-150	1.88
150-160	0.59
160-170	0.09
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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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

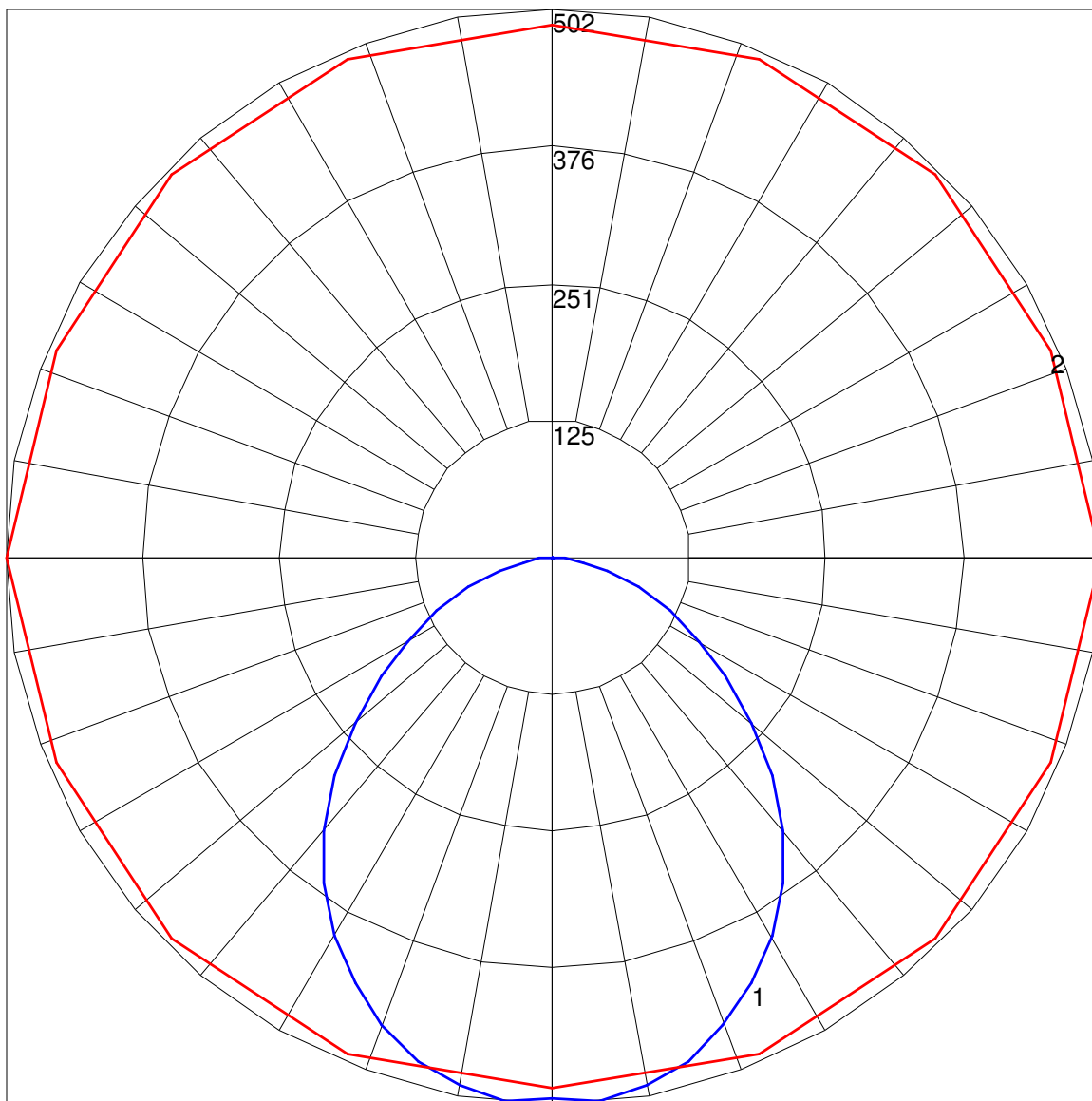
X=2H	Y=2H	14.3	15.8	14.7	16.2	16.7	17.7	19.1	18.1	19.6	20.1
	3H	15.5	16.8	15.9	17.3	17.8	19.9	21.2	20.3	21.7	22.2
	4H	15.8	17.1	16.3	17.6	18.1	20.9	22.2	21.4	22.7	23.2
	6H	16.0	17.2	16.5	17.7	18.2	21.9	23.1	22.4	23.6	24.2
	8H	16.0	17.1	16.5	17.7	18.2	22.5	23.6	23.0	24.1	24.7
	12H	16.0	17.1	16.5	17.6	18.2	23.0	24.1	23.6	24.6	25.2
4H	2H	15.3	16.6	15.8	17.1	17.6	18.0	19.3	18.5	19.7	20.3
	3H	16.8	17.9	17.3	18.4	18.9	20.4	21.5	20.9	22.0	22.6
	4H	17.2	18.2	17.8	18.8	19.4	21.6	22.6	22.1	23.1	23.7
	6H	17.5	18.4	18.1	18.9	19.6	22.8	23.7	23.4	24.3	24.9
	8H	17.6	18.4	18.1	19.0	19.6	23.4	24.3	24.0	24.8	25.4
	12H	17.6	18.3	18.2	18.9	19.6	24.1	24.9	24.7	25.5	26.1
8H	4H	18.0	18.8	18.6	19.4	20.0	21.7	22.6	22.3	23.1	23.8
	6H	18.5	19.2	19.1	19.8	20.4	23.1	23.8	23.7	24.4	25.0
	8H	18.6	19.2	19.2	19.9	20.5	23.9	24.5	24.5	25.1	25.8
	12H	18.7	19.3	19.3	19.9	20.6	24.7	25.3	25.3	25.9	26.6
12H	4H	18.2	18.9	18.8	19.5	20.2	21.7	22.5	22.3	23.1	23.7
	6H	18.8	19.4	19.4	20.0	20.7	23.2	23.8	23.8	24.4	25.0
	8H	19.0	19.6	19.6	20.2	20.9	23.9	24.5	24.6	25.1	25.8

Maximum UGR = 26.6

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POLAR GRAPH



Maximum Candela = 501.896 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.)