



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-840-(L47)-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-(L47)-EM10WLP-DIM-UNV(EM 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	1530
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
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	5350	4524	4516
55	4416	3872	3976
65	3637	3252	3349
75	2457	2672	2744
85	1442	2295	2250

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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	490.040	490.040	490.040	490.040	490.040
5	495.420	488.169	488.402	487.233	482.321
10	487.233	481.151	482.321	481.619	477.175
15	472.964	468.520	471.795	473.198	468.520
20	451.445	450.275	455.889	458.228	455.421
25	426.183	427.820	435.773	441.153	439.048
30	397.178	399.517	413.084	421.270	420.803
35	361.858	366.068	385.716	397.178	398.815
40	324.198	327.239	352.033	369.343	373.319
45	279.755	287.474	316.011	338.934	344.548
50	233.675	246.072	280.925	305.953	312.971
55	189.466	205.606	244.903	271.101	281.159
60	152.509	167.479	210.284	236.482	247.008
65	117.189	133.562	178.005	201.864	210.986
70	82.102	104.090	147.363	168.181	177.069
75	50.524	78.593	119.060	138.708	146.427
80	28.069	54.267	94.967	113.212	118.124
85	11.929	37.425	75.787	91.458	94.733
90	1.637	25.730	58.711	72.512	76.956
95	0.234	17.543	47.016	57.542	62.220
100	0.000	11.462	36.490	47.016	50.758
105	0.000	8.187	28.303	38.361	41.402
110	0.000	5.614	21.754	31.344	33.917
115	0.000	4.678	17.777	26.198	28.069
120	0.000	3.509	13.567	21.520	23.391
125	0.000	2.105	10.058	17.075	19.181
130	0.000	1.403	7.251	13.333	15.204
135	0.000	0.702	5.380	10.526	11.929
140	0.000	0.702	3.743	8.187	9.356
145	0.000	0.000	2.339	5.146	6.549
150	0.000	0.000	1.637	3.743	4.678
155	0.000	0.000	1.170	1.871	3.041
160	0.000	0.000	0.468	1.403	1.637
165	0.000	0.000	0.000	0.468	0.702
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-(L47)-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	179.19	N.A.	11.70
0-30	379.36	N.A.	24.80
0-40	618.21	N.A.	40.40
0-60	1074.72	N.A.	70.20
0-80	1358.85	N.A.	88.80
0-90	1430.27	N.A.	93.50
10-90	1383.88	N.A.	90.50
20-40	439.01	N.A.	28.70
20-50	681.03	N.A.	44.50
40-70	624.81	N.A.	40.80
60-80	284.14	N.A.	18.60
70-80	115.84	N.A.	7.60
80-90	71.41	N.A.	4.70
90-110	68.15	N.A.	4.50
90-120	83.78	N.A.	5.50
90-130	92.64	N.A.	6.10
90-150	98.98	N.A.	6.50
90-180	99.64	N.A.	6.50
110-180	31.49	N.A.	2.10
0-180	1529.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.39
10-20	132.80
20-30	200.16
30-40	238.85
40-50	242.02
50-60	214.49
60-70	168.30
70-80	115.84
80-90	71.41
90-100	42.52
100-110	25.63
110-120	15.62
120-130	8.87
130-140	4.48
140-150	1.85
150-160	0.58
160-170	0.08
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

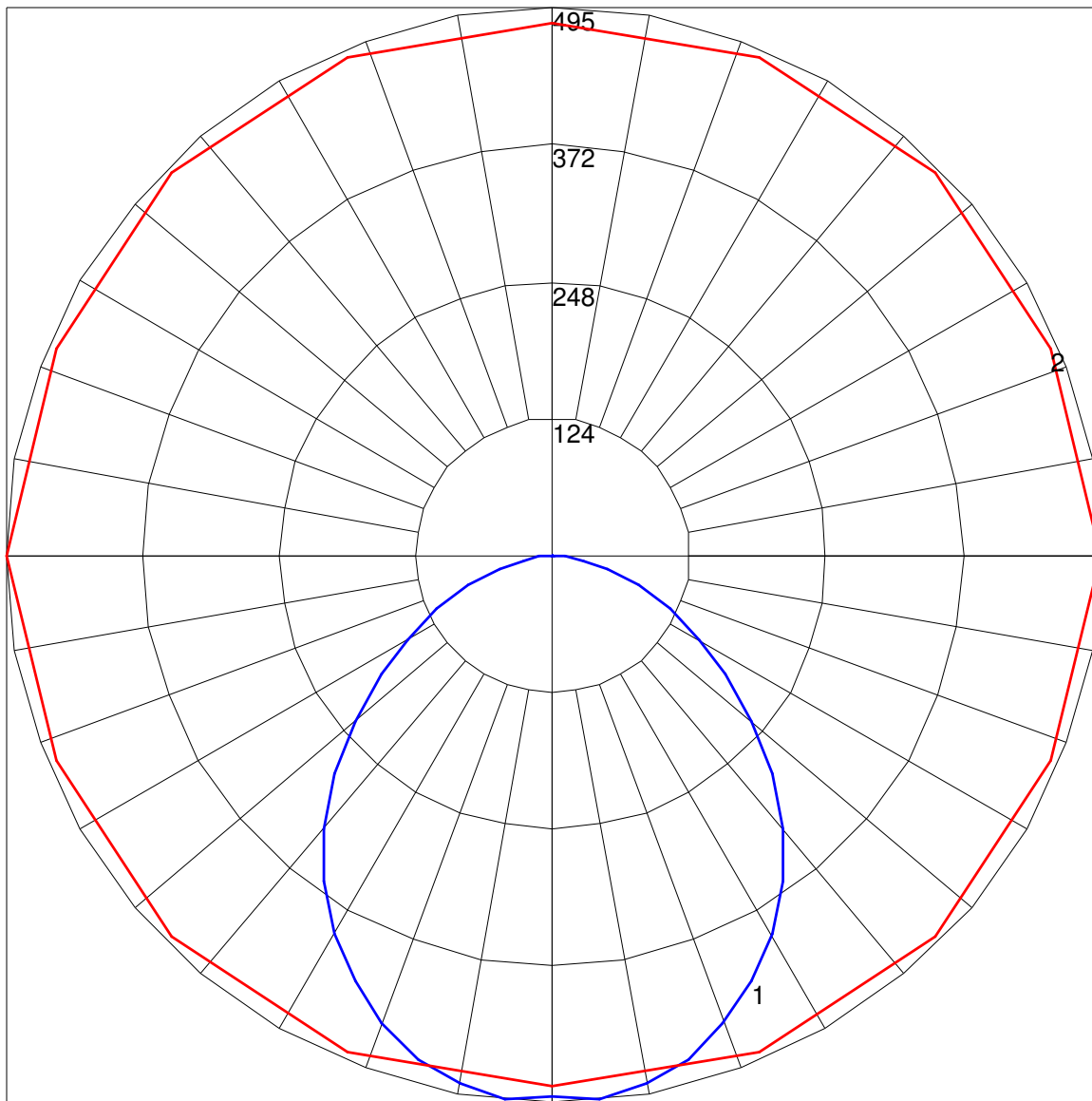
X=2H	Y=2H	14.3	15.8	14.7	16.2	16.7	UGR Viewed Endwise			
	3H	15.5	16.8	15.9	17.3	17.8	17.7	19.1	18.1	19.6
	4H	15.8	17.1	16.3	17.6	18.1	19.9	21.2	20.3	21.7
	6H	16.0	17.2	16.5	17.7	18.2	20.9	22.2	21.4	22.7
	8H	16.0	17.1	16.5	17.7	18.2	21.9	23.1	22.4	23.6
	12H	16.0	17.1	16.5	17.6	18.2	22.5	23.6	23.0	24.1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

Maximum UGR = 26.6

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POLAR GRAPH



Maximum Candela = 495.42 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.)