



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-840-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] 05-27-2021

[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-EM10WLP-DIM-UNV(EMERGENCY 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	1519
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	5312	4491	4483
55	4384	3844	3947
65	3611	3229	3325
75	2440	2653	2724
85	1432	2279	2234

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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	486.517	486.517	486.517	486.517	486.517
5	491.858	484.659	484.891	483.730	478.853
10	483.730	477.692	478.853	478.156	473.744
15	469.564	465.152	468.403	469.796	465.152
20	448.199	447.038	452.611	454.934	452.147
25	423.119	424.744	432.640	437.981	435.891
30	394.322	396.645	410.114	418.242	417.777
35	359.256	363.436	382.943	394.322	395.948
40	321.867	324.886	349.502	366.687	370.635
45	277.744	285.408	313.739	336.498	342.071
50	231.995	244.303	278.905	303.754	310.720
55	188.104	204.128	243.142	269.152	279.137
60	151.412	166.275	208.773	234.782	245.232
65	116.346	132.602	176.725	200.412	209.469
70	81.512	103.341	146.303	166.972	175.796
75	50.161	78.028	118.204	137.711	145.374
80	27.867	53.877	94.284	112.398	117.275
85	11.844	37.156	75.242	90.801	94.052
90	1.626	25.545	58.289	71.991	76.403
95	0.232	17.417	46.678	57.128	61.773
100	0.000	11.379	36.227	46.678	50.393
105	0.000	8.128	28.100	38.085	41.104
110	0.000	5.573	21.597	31.118	33.673
115	0.000	4.645	17.649	26.009	27.867
120	0.000	3.483	13.469	21.365	23.223
125	0.000	2.090	9.986	16.953	19.043
130	0.000	1.393	7.199	13.237	15.095
135	0.000	0.697	5.341	10.450	11.844
140	0.000	0.697	3.716	8.128	9.289
145	0.000	0.000	2.322	5.109	6.502
150	0.000	0.000	1.626	3.716	4.645
155	0.000	0.000	1.161	1.858	3.019
160	0.000	0.000	0.464	1.393	1.626
165	0.000	0.000	0.000	0.464	0.697
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

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Zone	Lumens	%Lamp	%Fixt
0-20	177.91	N.A.	11.70
0-30	376.63	N.A.	24.80
0-40	613.76	N.A.	40.40
0-60	1066.99	N.A.	70.20
0-80	1349.09	N.A.	88.80
0-90	1419.99	N.A.	93.50
10-90	1373.93	N.A.	90.50
20-40	435.86	N.A.	28.70
20-50	676.14	N.A.	44.50
40-70	620.32	N.A.	40.80
60-80	282.10	N.A.	18.60
70-80	115.00	N.A.	7.60
80-90	70.90	N.A.	4.70
90-110	67.66	N.A.	4.50
90-120	83.17	N.A.	5.50
90-130	91.98	N.A.	6.10
90-150	98.26	N.A.	6.50
90-180	98.92	N.A.	6.50
110-180	31.26	N.A.	2.10
0-180	1518.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.06
10-20	131.85
20-30	198.72
30-40	237.14
40-50	240.28
50-60	212.95
60-70	167.09
70-80	115.00
80-90	70.90
90-100	42.21
100-110	25.45
110-120	15.51
120-130	8.81
130-140	4.45
140-150	1.84
150-160	0.57
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	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

UGR Viewed Endwise

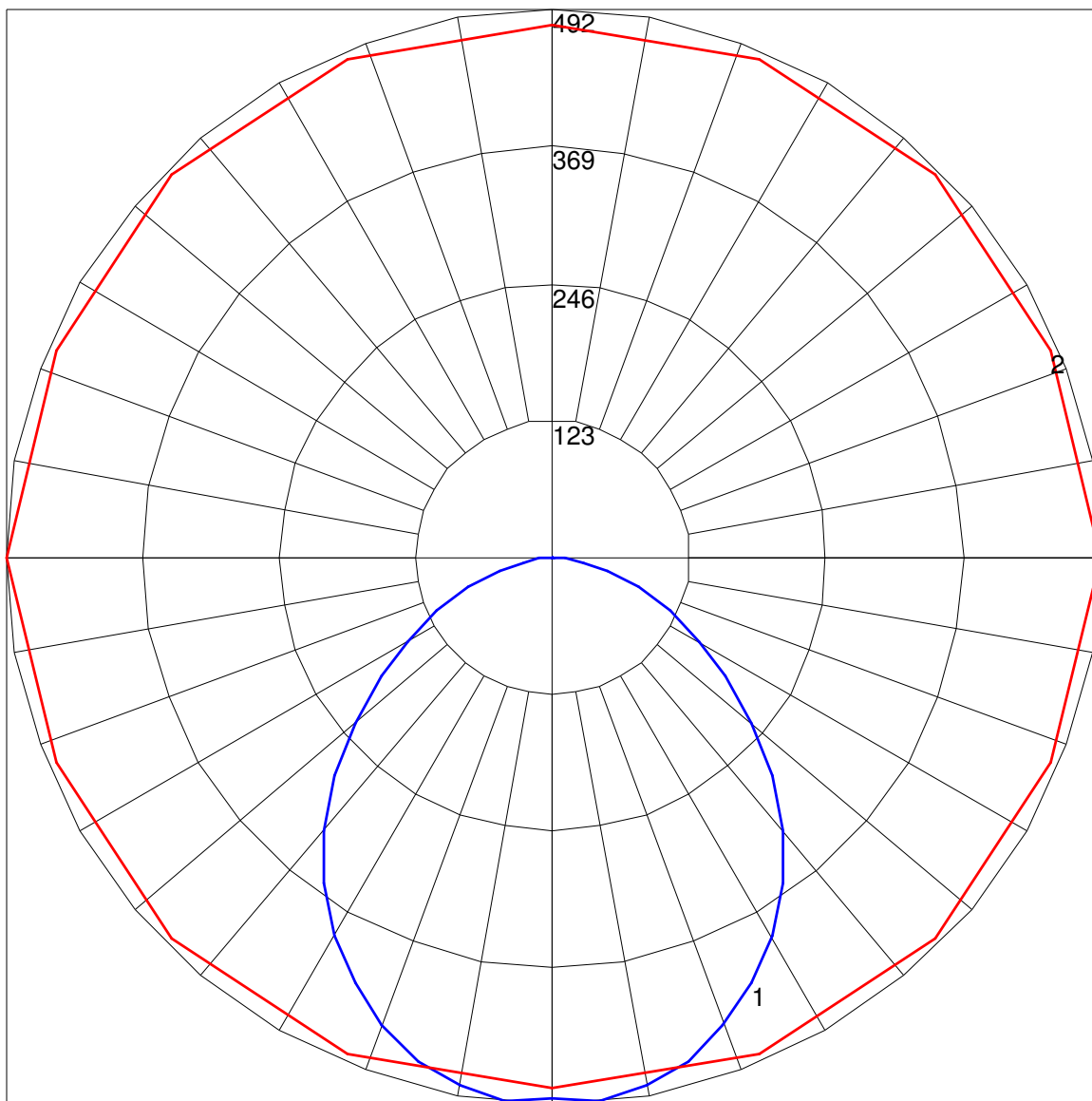
4H	2H	15.3	16.6	15.8	17.1	17.6	18.0	19.3	18.5	19.7	20.3
	3H	16.8	17.9	17.3	18.4	18.9	20.4	21.5	20.9	22.0	22.6
	4H	17.2	18.2	17.8	18.8	19.4	21.6	22.6	22.1	23.1	23.7
	6H	17.5	18.4	18.1	18.9	19.6	22.8	23.7	23.4	24.3	24.9
	8H	17.6	18.4	18.1	19.0	19.6	23.4	24.3	24.0	24.8	25.4
	12H	17.6	18.3	18.2	18.9	19.6	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

POLAR GRAPH



Maximum Candela = 491.858 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.)