



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-840-(L15)-DIM-UNV_.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] 01-18-2021

[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-L30-840-(L15)-DIM-UNV

[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	1546
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	9.8
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	5406	4571	4563
55	4462	3912	4017
65	3675	3286	3384
75	2483	2700	2773
85	1457	2319	2274

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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	495.164	495.164	495.164	495.164	495.164
5	500.601	493.274	493.510	492.328	487.365
10	492.328	486.183	487.365	486.656	482.165
15	477.910	473.420	476.729	478.147	473.420
20	456.166	454.984	460.656	463.020	460.184
25	430.639	432.294	440.330	445.766	443.639
30	401.331	403.695	417.403	425.676	425.203
35	365.642	369.896	389.750	401.331	402.986
40	327.588	330.661	355.715	373.205	377.223
45	282.681	290.481	319.316	342.479	348.151
50	236.119	248.646	283.863	309.153	316.243
55	191.448	207.756	247.464	273.936	284.099
60	154.104	169.230	212.483	238.955	249.591
65	118.414	134.959	179.866	203.975	213.192
70	82.961	105.178	148.904	169.939	178.921
75	51.053	79.415	120.305	140.159	147.958
80	28.363	54.834	95.960	114.396	119.359
85	12.054	37.817	76.579	92.415	95.724
90	1.654	25.999	59.325	73.270	77.761
95	0.236	17.727	47.507	58.143	62.871
100	0.000	11.581	36.871	47.507	51.289
105	0.000	8.272	28.599	38.762	41.835
110	0.000	5.673	21.981	31.672	34.272
115	0.000	4.727	17.963	26.472	28.363
120	0.000	3.545	13.709	21.745	23.636
125	0.000	2.127	10.163	17.254	19.381
130	0.000	1.418	7.327	13.472	15.363
135	0.000	0.709	5.436	10.636	12.054
140	0.000	0.709	3.782	8.272	9.454
145	0.000	0.000	2.364	5.200	6.618
150	0.000	0.000	1.654	3.782	4.727
155	0.000	0.000	1.182	1.891	3.073
160	0.000	0.000	0.473	1.418	1.654
165	0.000	0.000	0.000	0.473	0.709
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	181.07	N.A.	11.70
0-30	383.32	N.A.	24.80
0-40	624.67	N.A.	40.40
0-60	1085.95	N.A.	70.20
0-80	1373.07	N.A.	88.80
0-90	1445.23	N.A.	93.50
10-90	1398.35	N.A.	90.50
20-40	443.61	N.A.	28.70
20-50	688.15	N.A.	44.50
40-70	631.34	N.A.	40.80
60-80	287.11	N.A.	18.60
70-80	117.05	N.A.	7.60
80-90	72.16	N.A.	4.70
90-110	68.86	N.A.	4.50
90-120	84.65	N.A.	5.50
90-130	93.61	N.A.	6.10
90-150	100.01	N.A.	6.50
90-180	100.68	N.A.	6.50
110-180	31.82	N.A.	2.10
0-180	1545.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.88
10-20	134.19
20-30	202.25
30-40	241.35
40-50	244.55
50-60	216.73
60-70	170.06
70-80	117.05
80-90	72.16
90-100	42.96
100-110	25.90
110-120	15.79
120-130	8.96
130-140	4.53
140-150	1.87
150-160	0.58
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

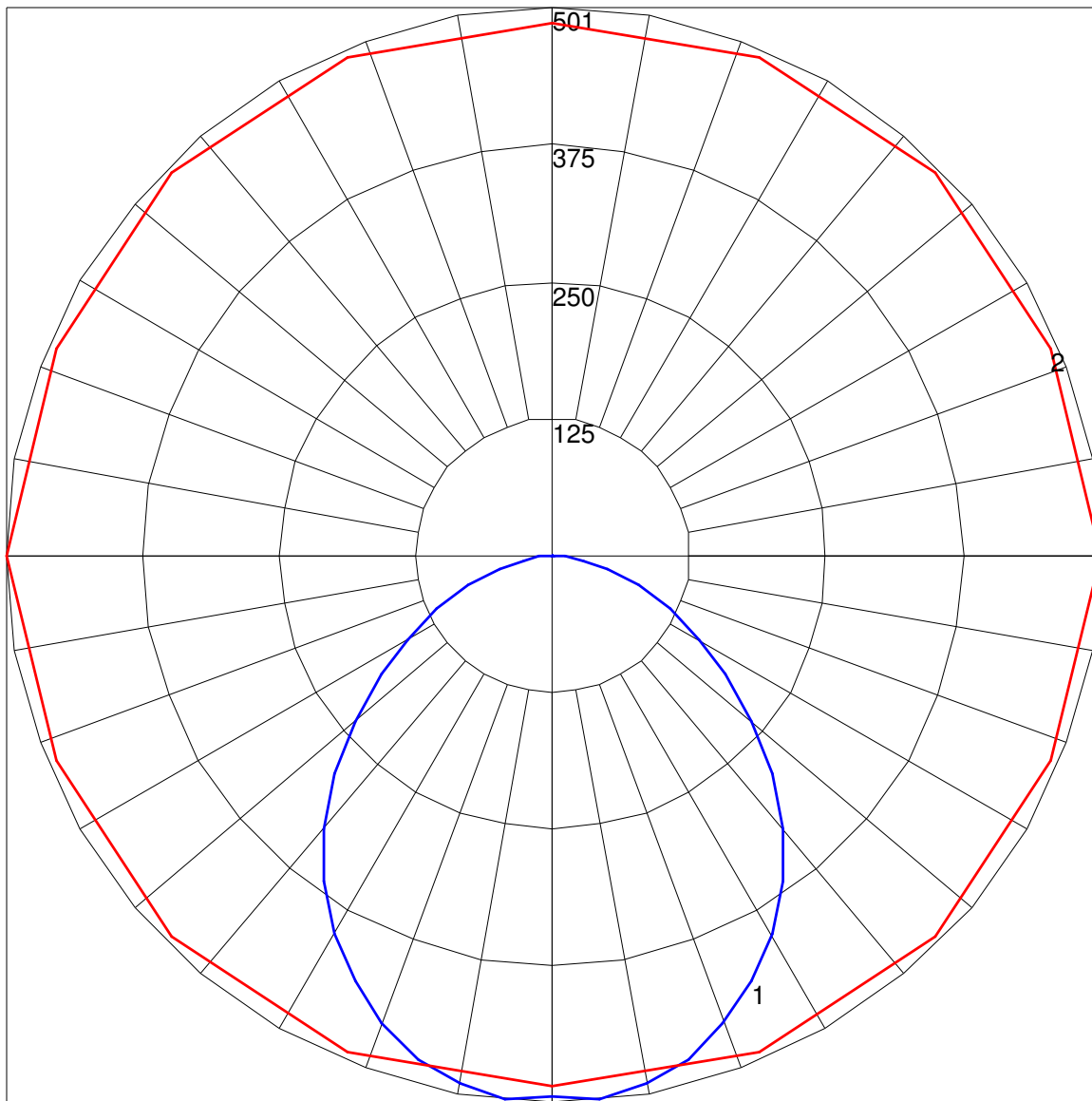
Reflectances

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					UGR Viewed Endwise				
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

POLAR GRAPH



Maximum Candela = 500.601 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.)