



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-840-(L37)-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] 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)-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	3859
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
Total Luminaire Watts	24.9
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	13495	11410	11390
55	11138	9765	10027
65	9173	8202	8447
75	6198	6740	6922
85	3637	5789	5676

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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	1235.989	1235.989	1235.989	1235.989	1235.989
5	1249.558	1231.269	1231.859	1228.909	1216.520
10	1228.909	1213.570	1216.520	1214.750	1203.541
15	1192.921	1181.712	1189.971	1193.511	1181.712
20	1138.644	1135.694	1149.853	1155.753	1148.673
25	1074.927	1079.057	1099.116	1112.685	1107.375
30	1001.771	1007.670	1041.889	1062.538	1061.358
35	912.685	923.304	972.862	1001.771	1005.900
40	817.700	825.369	887.906	931.564	941.594
45	705.605	725.074	797.051	854.868	869.027
50	589.381	620.649	708.555	771.682	789.381
55	477.876	518.584	617.700	683.776	709.145
60	384.661	422.419	530.384	596.461	623.009
65	295.575	336.873	448.968	509.145	532.154
70	207.080	262.537	371.682	424.189	446.608
75	127.434	198.230	300.295	349.853	369.322
80	70.797	136.873	239.528	285.546	297.935
85	30.089	94.395	191.151	230.679	238.938
90	4.130	64.897	148.083	182.891	194.100
95	0.590	44.248	118.584	145.133	156.932
100	0.000	28.909	92.035	118.584	128.024
105	0.000	20.649	71.386	96.755	104.425
110	0.000	14.159	54.867	79.056	85.546
115	0.000	11.799	44.838	66.077	70.797
120	0.000	8.850	34.218	54.277	58.997
125	0.000	5.310	25.369	43.068	48.378
130	0.000	3.540	18.289	33.628	38.348
135	0.000	1.770	13.569	26.549	30.089
140	0.000	1.770	9.440	20.649	23.599
145	0.000	0.000	5.900	12.979	16.519
150	0.000	0.000	4.130	9.440	11.799
155	0.000	0.000	2.950	4.720	7.670
160	0.000	0.000	1.180	3.540	4.130
165	0.000	0.000	0.000	1.180	1.770
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	451.97	N.A.	11.70
0-30	956.82	N.A.	24.80
0-40	1559.26	N.A.	40.40
0-60	2710.67	N.A.	70.20
0-80	3427.33	N.A.	88.80
0-90	3607.46	N.A.	93.50
10-90	3490.44	N.A.	90.50
20-40	1107.29	N.A.	28.70
20-50	1717.72	N.A.	44.50
40-70	1575.91	N.A.	40.80
60-80	716.66	N.A.	18.60
70-80	292.17	N.A.	7.60
80-90	180.12	N.A.	4.70
90-110	171.89	N.A.	4.50
90-120	211.30	N.A.	5.50
90-130	233.67	N.A.	6.10
90-150	249.64	N.A.	6.50
90-180	251.31	N.A.	6.50
110-180	79.42	N.A.	2.10
0-180	3858.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.02
10-20	334.95
20-30	504.85
30-40	602.44
40-50	610.42
50-60	540.99
60-70	424.50
70-80	292.17
80-90	180.12
90-100	107.25
100-110	64.65
110-120	39.41
120-130	22.37
130-140	11.30
140-150	4.67
150-160	1.46
160-170	0.21
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

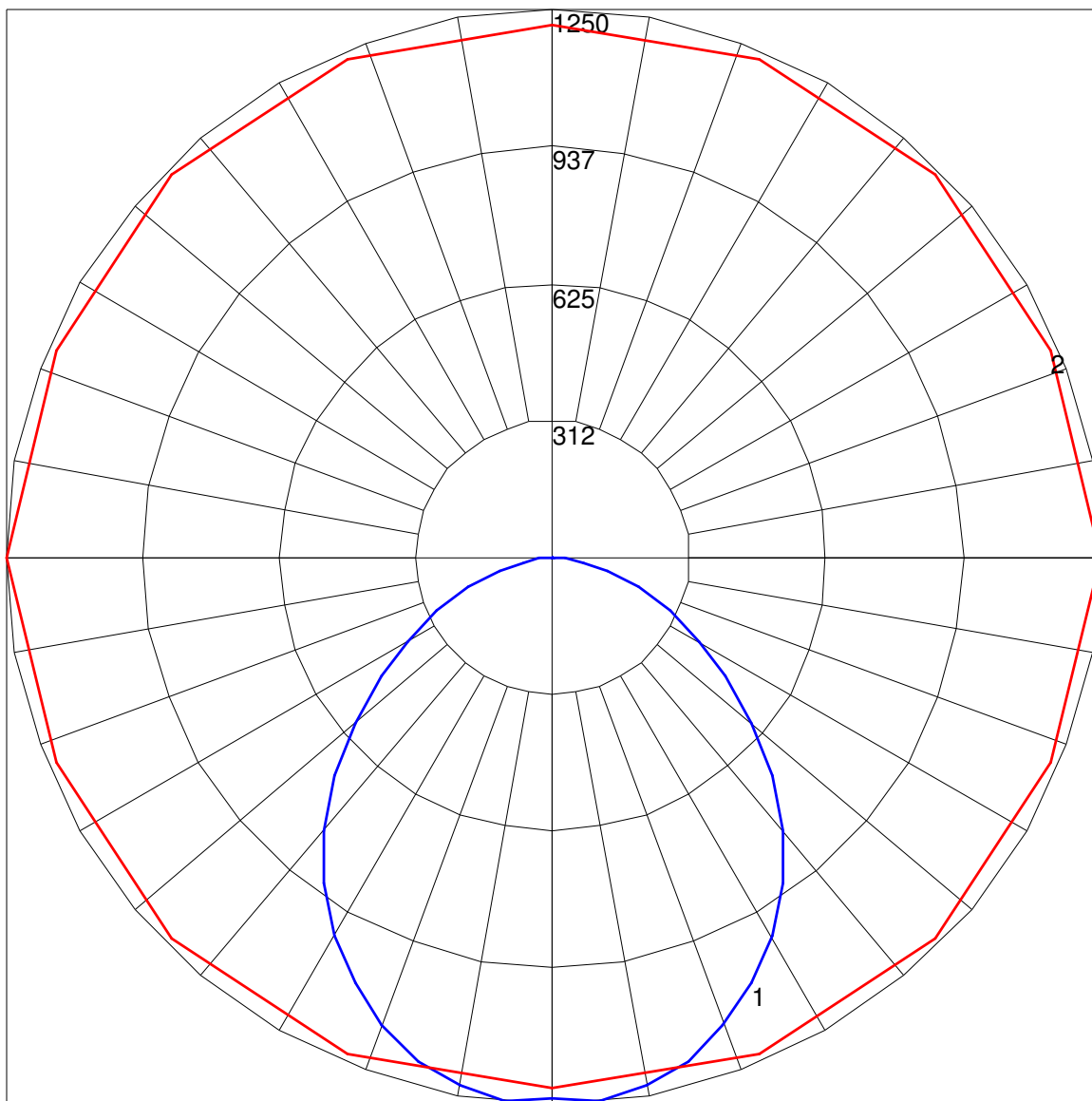
Reflectances

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	17.5	19.0	17.9	19.4	19.9	20.9	22.4	21.3	22.8	23.3
	3H	18.7	20.0	19.1	20.5	21.0	23.1	24.4	23.5	24.9	25.4
	4H	19.0	20.3	19.5	20.8	21.3	24.1	25.4	24.6	25.9	26.4
	6H	19.2	20.4	19.7	20.9	21.4	25.1	26.3	25.7	26.8	27.4
	8H	19.2	20.3	19.7	20.9	21.4	25.7	26.8	26.2	27.3	27.9
	12H	19.2	20.3	19.7	20.8	21.4	26.2	27.3	26.8	27.8	28.4
4H	2H	18.5	19.8	19.0	20.3	20.8	21.2	22.5	21.7	23.0	23.5
	3H	20.0	21.1	20.5	21.6	22.1	23.6	24.7	24.1	25.2	25.8
	4H	20.4	21.4	21.0	22.0	22.6	24.8	25.8	25.3	26.3	26.9
	6H	20.7	21.6	21.3	22.1	22.8	26.0	26.9	26.6	27.5	28.1
	8H	20.8	21.6	21.3	22.2	22.8	26.6	27.5	27.2	28.0	28.6
	12H	20.8	21.5	21.4	22.1	22.8	27.3	28.1	27.9	28.7	29.3
8H	4H	21.2	22.0	21.8	22.6	23.2	25.0	25.8	25.5	26.3	27.0
	6H	21.7	22.4	22.3	23.0	23.6	26.3	27.0	26.9	27.6	28.2
	8H	21.8	22.4	22.4	23.1	23.7	27.1	27.7	27.7	28.3	29.0
	12H	21.9	22.5	22.5	23.1	23.8	27.9	28.5	28.5	29.1	29.8
12H	4H	21.4	22.1	22.0	22.7	23.4	24.9	25.7	25.5	26.3	26.9
	6H	22.0	22.6	22.6	23.2	23.9	26.4	27.0	27.0	27.6	28.3
	8H	22.2	22.8	22.8	23.4	24.1	27.1	27.7	27.8	28.3	29.0

Maximum UGR = 29.8

POLAR GRAPH



Maximum Candela = 1249.558 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.)