



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L100-835-(L83)-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] 04-16-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L100-835-(L83)-DIM-UNV

[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	8449
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	53.6
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)	7.44 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	14975	12580	12467
55	12429	10788	10975
65	10332	9085	9246
75	7121	7492	7576
85	4529	6475	6212

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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	2706.428	2706.428	2706.428	2706.428	2706.428
5	2736.141	2696.093	2697.385	2690.926	2663.797
10	2690.926	2657.338	2663.797	2659.921	2635.376
15	2612.123	2587.578	2605.664	2613.415	2587.578
20	2493.273	2486.813	2517.818	2530.736	2515.234
25	2353.753	2362.796	2406.718	2436.431	2424.804
30	2193.563	2206.482	2281.409	2326.624	2324.040
35	1998.494	2021.747	2130.262	2193.563	2202.606
40	1790.506	1807.300	1944.236	2039.833	2061.794
45	1545.054	1587.685	1745.291	1871.892	1902.897
50	1290.559	1359.027	1551.513	1689.741	1728.497
55	1046.399	1135.537	1352.568	1497.255	1552.805
60	842.287	924.965	1161.374	1306.061	1364.195
65	647.217	737.647	983.099	1114.867	1165.250
70	453.440	574.874	813.866	928.841	977.931
75	279.040	434.062	657.552	766.068	808.699
80	155.022	299.709	524.492	625.256	652.385
85	65.884	206.696	418.560	505.114	523.200
90	9.043	142.104	324.255	400.474	425.019
95	1.292	96.889	259.662	317.795	343.632
100	0.000	63.301	201.529	259.662	280.332
105	0.000	45.215	156.314	211.864	228.658
110	0.000	31.004	120.142	173.108	187.318
115	0.000	25.837	98.181	144.687	155.022
120	0.000	19.378	74.927	118.850	129.185
125	0.000	11.627	55.550	94.305	105.932
130	0.000	7.751	40.047	73.636	83.970
135	0.000	3.876	29.713	58.133	65.884
140	0.000	3.876	20.670	45.215	51.674
145	0.000	0.000	12.919	28.421	36.172
150	0.000	0.000	9.043	20.670	25.837
155	0.000	0.000	6.459	10.335	16.794
160	0.000	0.000	2.584	7.751	9.043
165	0.000	0.000	0.000	2.584	3.876
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	989.67	N.A.	11.70
0-30	2095.13	N.A.	24.80
0-40	3414.29	N.A.	40.40
0-60	5935.52	N.A.	70.20
0-80	7504.78	N.A.	88.80
0-90	7899.2	N.A.	93.50
10-90	7642.97	N.A.	90.50
20-40	2424.62	N.A.	28.70
20-50	3761.26	N.A.	44.50
40-70	3450.74	N.A.	40.80
60-80	1569.27	N.A.	18.60
70-80	639.75	N.A.	7.60
80-90	394.41	N.A.	4.70
90-110	376.39	N.A.	4.50
90-120	462.68	N.A.	5.50
90-130	511.66	N.A.	6.10
90-150	546.64	N.A.	6.50
90-180	550.30	N.A.	6.50
110-180	173.91	N.A.	2.10
0-180	8449.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	256.23
10-20	733.44
20-30	1105.46
30-40	1319.16
40-50	1336.64
50-60	1184.59
60-70	929.51
70-80	639.75
80-90	394.41
90-100	234.83
100-110	141.56
110-120	86.29
120-130	48.98
130-140	24.75
140-150	10.22
150-160	3.20
160-170	0.47
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	118	118	118	118	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	61	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	17.8	19.3	18.2	19.7	20.2	21.2	22.7	21.7	23.2	23.6
	3H	19.0	20.3	19.4	20.8	21.3	23.4	24.8	23.9	25.3	25.8
	4H	19.3	20.6	19.8	21.1	21.6	24.5	25.8	25.0	26.2	26.8
	6H	19.5	20.7	20.0	21.2	21.7	25.5	26.7	26.1	27.2	27.8
	8H	19.5	20.6	20.0	21.2	21.7	26.1	27.2	26.6	27.7	28.3
	12H	19.5	20.6	20.0	21.1	21.7	26.7	27.8	27.2	28.3	28.9

UGR Viewed Endwise

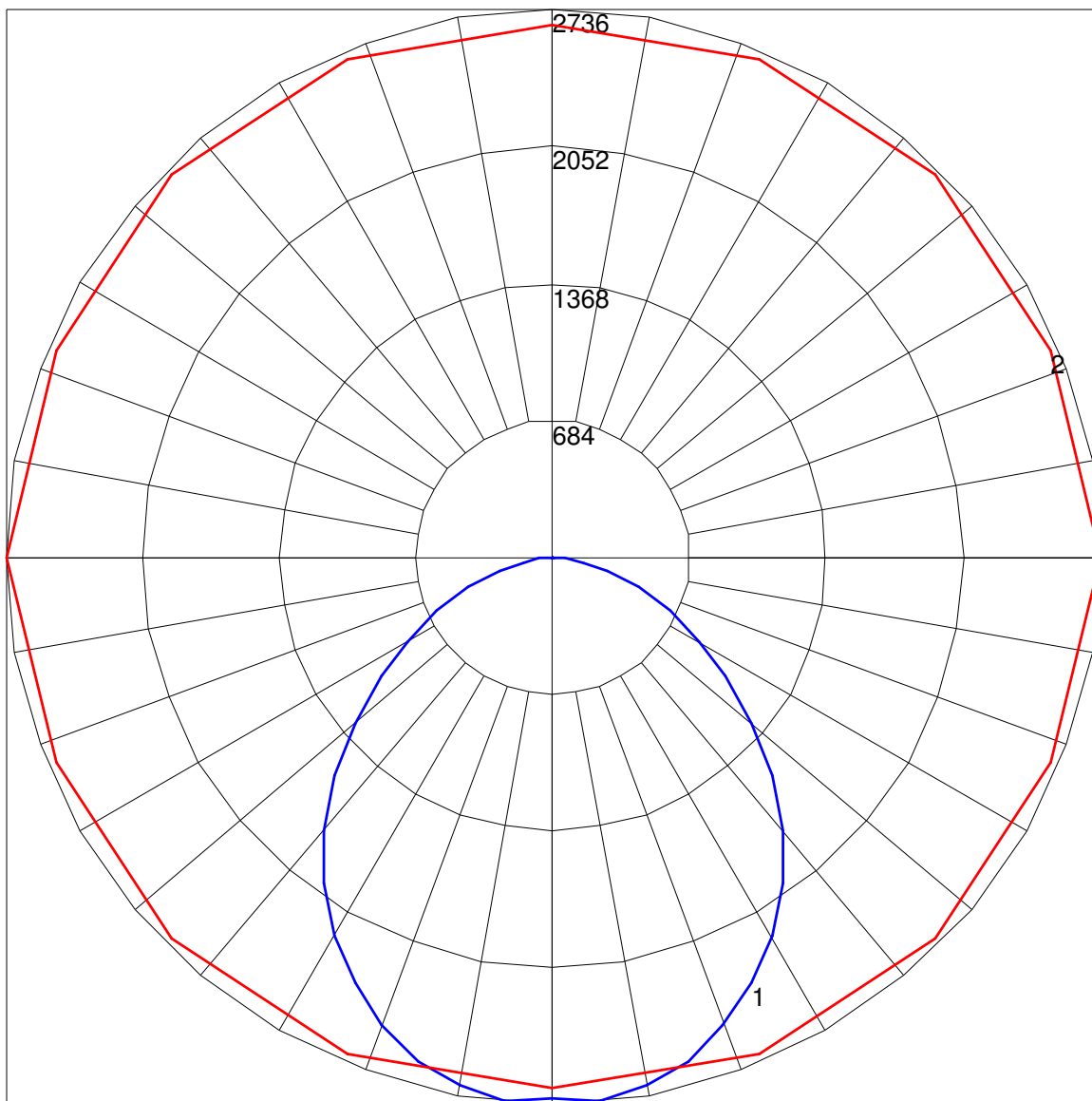
4H	2H	18.8	20.1	19.4	20.6	21.2	21.5	22.8	22.0	23.3	23.8
	3H	20.3	21.4	20.8	21.9	22.5	24.0	25.1	24.5	25.6	26.1
	4H	20.7	21.7	21.3	22.3	22.9	25.2	26.2	25.7	26.7	27.3
	6H	21.0	21.9	21.6	22.5	23.1	26.4	27.3	27.0	27.9	28.5
	8H	21.1	21.9	21.7	22.5	23.1	27.1	27.9	27.6	28.4	29.1
	12H	21.1	21.9	21.7	22.5	23.1	27.8	28.5	28.4	29.1	29.7

8H	4H	21.5	22.3	22.1	22.9	23.5	25.3	26.1	25.9	26.7	27.3
	6H	22.0	22.7	22.6	23.3	23.9	26.7	27.4	27.3	28.0	28.6
	8H	22.1	22.8	22.8	23.4	24.0	27.5	28.1	28.1	28.7	29.4
	12H	22.2	22.8	22.8	23.4	24.1	28.4	28.9	29.0	29.5	30.2

12H	4H	21.7	22.5	22.3	23.1	23.7	25.3	26.1	25.9	26.7	27.3
	6H	22.3	22.9	22.9	23.5	24.2	26.8	27.4	27.4	28.0	28.6
	8H	22.5	23.1	23.2	23.7	24.4	27.6	28.1	28.2	28.7	29.4

Maximum UGR = 30.2

POLAR GRAPH



Maximum Candela = 2736.141 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.)