



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L130-835-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] 31-AUG-2020

[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-L130-835-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	12352
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	87.9
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)	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	21891	18390	18226
55	18170	15770	16045
65	15105	13281	13517
75	10409	10953	11075
85	6621	9466	9082

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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	3956.510	3956.510	3956.510	3956.510	3956.510
5	3999.947	3941.402	3943.290	3933.848	3894.188
10	3933.848	3884.745	3894.188	3888.522	3852.640
15	3818.646	3782.764	3809.203	3820.535	3782.764
20	3644.900	3635.457	3680.782	3699.667	3677.005
25	3440.936	3454.156	3518.367	3561.803	3544.806
30	3206.756	3225.642	3335.177	3401.277	3397.500
35	2921.585	2955.579	3114.217	3206.756	3219.976
40	2617.529	2642.080	2842.266	2982.019	3014.124
45	2258.705	2321.027	2551.430	2736.507	2781.833
50	1886.660	1986.754	2268.147	2470.222	2526.879
55	1529.725	1660.035	1977.311	2188.828	2270.036
60	1231.334	1352.201	1697.806	1909.323	1994.308
65	946.163	1078.361	1437.186	1629.818	1703.471
70	662.881	840.404	1189.786	1357.867	1429.632
75	407.927	634.552	961.271	1119.910	1182.232
80	226.626	438.143	766.751	914.058	953.717
85	96.316	302.168	611.890	738.423	764.862
90	13.220	207.740	474.026	585.450	621.333
95	1.889	141.641	379.598	464.583	502.354
100	0.000	92.539	294.614	379.598	409.815
105	0.000	66.099	228.514	309.722	334.273
110	0.000	45.325	175.635	253.066	273.840
115	0.000	37.771	143.530	211.517	226.626
120	0.000	28.328	109.536	173.747	188.855
125	0.000	16.997	81.208	137.864	154.861
130	0.000	11.331	58.545	107.647	122.756
135	0.000	5.666	43.437	84.985	96.316
140	0.000	5.666	30.217	66.099	75.542
145	0.000	0.000	18.885	41.548	52.879
150	0.000	0.000	13.220	30.217	37.771
155	0.000	0.000	9.443	15.108	24.551
160	0.000	0.000	3.777	11.331	13.220
165	0.000	0.000	0.000	3.777	5.666
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	1446.79	N.A.	11.70
0-30	3062.86	N.A.	24.80
0-40	4991.33	N.A.	40.40
0-60	8677.1	N.A.	70.20
0-80	10971.2	N.A.	88.80
0-90	11547.79	N.A.	93.50
10-90	11173.21	N.A.	90.50
20-40	3544.54	N.A.	28.70
20-50	5498.56	N.A.	44.50
40-70	5044.61	N.A.	40.80
60-80	2294.1	N.A.	18.60
70-80	935.25	N.A.	7.60
80-90	576.59	N.A.	4.70
90-110	550.24	N.A.	4.50
90-120	676.39	N.A.	5.50
90-130	748.00	N.A.	6.10
90-150	799.12	N.A.	6.50
90-180	804.48	N.A.	6.50
110-180	254.24	N.A.	2.10
0-180	12352.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	374.58
10-20	1072.21
20-30	1616.07
30-40	1928.47
40-50	1954.02
50-60	1731.75
60-70	1358.85
70-80	935.25
80-90	576.59
90-100	343.30
100-110	206.94
110-120	126.15
120-130	71.61
130-140	36.18
140-150	14.95
150-160	4.67
160-170	0.68
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	111	111	111	111	108	108	108	108	102	102	102	96	96	96	91	91	91	88
1	100	95	91	87	97	92	88	85	87	84	81	83	80	77	78	76	74	72
2	91	83	76	70	88	80	74	69	76	71	66	72	68	64	68	65	62	59
3	83	72	64	58	80	70	63	57	67	61	55	63	58	54	60	56	52	50
4	76	64	56	49	73	62	55	48	59	53	47	56	51	46	54	49	45	42
5	70	57	49	42	67	56	48	42	53	46	41	51	45	40	48	43	39	37
6	64	52	43	37	62	50	42	36	48	41	36	46	40	35	44	38	34	32
7	60	47	38	33	58	46	38	32	44	37	32	42	36	31	40	34	30	28
8	56	43	35	29	54	42	34	29	40	33	28	38	32	28	37	31	27	25
9	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	29	25	23
10	49	36	29	24	47	35	28	23	34	28	23	33	27	23	32	26	22	21

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UGR TABLE - CORRECTED

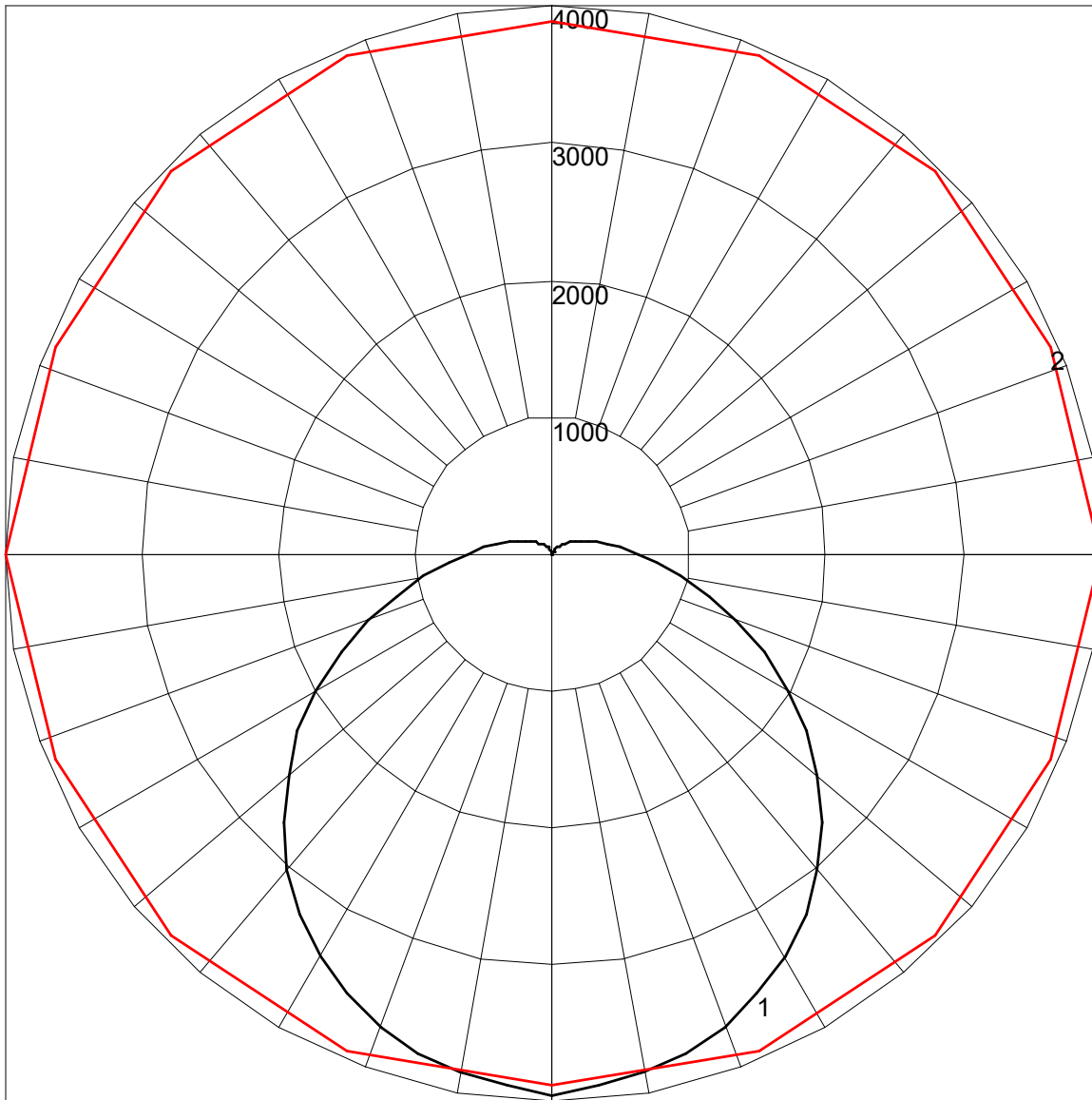
Reflectances

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	19.3	20.8	19.7	21.2	21.7	22.7	24.2	23.2	24.7	25.1
	3H	20.5	21.8	20.9	22.3	22.8	24.9	26.3	25.4	26.8	27.3
	4H	20.8	22.1	21.3	22.6	23.1	26.0	27.3	26.5	27.7	28.3
	6H	21.0	22.2	21.5	22.7	23.2	27.0	28.2	27.6	28.7	29.3
	8H	21.0	22.1	21.5	22.7	23.2	27.6	28.7	28.1	29.2	29.8
	12H	21.0	22.1	21.5	22.6	23.2	28.2	29.3	28.7	29.8	30.4
4H	2H	20.3	21.6	20.9	22.1	22.7	23.0	24.3	23.5	24.8	25.3
	3H	21.8	22.9	22.3	23.4	24.0	25.5	26.6	26.0	27.1	27.6
	4H	22.2	23.2	22.8	23.8	24.4	26.7	27.7	27.2	28.2	28.8
	6H	22.5	23.4	23.1	24.0	24.6	27.9	28.8	28.5	29.4	30.0
	8H	22.6	23.4	23.2	24.0	24.6	28.6	29.4	29.1	29.9	30.6
	12H	22.6	23.4	23.2	24.0	24.6	29.3	30.0	29.9	30.6	31.2
8H	4H	23.0	23.8	23.6	24.4	25.0	26.8	27.6	27.4	28.2	28.8
	6H	23.5	24.2	24.1	24.8	25.4	28.2	28.9	28.8	29.5	30.1
	8H	23.6	24.3	24.3	24.9	25.5	29.0	29.6	29.6	30.2	30.9
	12H	23.7	24.3	24.3	24.9	25.6	29.9	30.4	30.5	31.0	31.7
12H	4H	23.2	24.0	23.8	24.6	25.2	26.8	27.6	27.4	28.2	28.8
	6H	23.8	24.4	24.4	25.0	25.7	28.3	28.9	28.9	29.5	30.1
	8H	24.1	24.6	24.7	25.2	25.9	29.1	29.6	29.7	30.2	30.9

Maximum UGR = 31.7

POLAR GRAPH



Maximum Candela = 3999.947 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)