



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L100-840-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] 03/02/2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' LED LENSED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L100-840-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	9854
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	65.9
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	17470	14676	14545
55	14501	12585	12805
65	12054	10599	10787
75	8307	8741	8839
85	5284	7554	7248

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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	3156.432	3156.432	3156.432	3156.432	3156.432
5	3191.085	3144.378	3145.885	3138.352	3106.712
10	3138.352	3099.179	3106.712	3102.192	3073.566
15	3046.446	3017.820	3038.913	3047.953	3017.820
20	2907.834	2900.301	2936.461	2951.527	2933.447
25	2745.116	2755.663	2806.889	2841.542	2827.982
30	2558.292	2573.358	2660.744	2713.477	2710.463
35	2330.788	2357.907	2484.466	2558.292	2568.838
40	2088.217	2107.803	2267.508	2379.000	2404.613
45	1801.953	1851.673	2035.484	2183.136	2219.295
50	1505.143	1584.996	1809.487	1970.698	2015.898
55	1220.386	1324.345	1577.463	1746.207	1810.993
60	982.336	1078.761	1354.478	1523.223	1591.022
65	754.832	860.297	1146.561	1300.239	1358.998
70	528.834	670.459	949.189	1083.281	1140.534
75	325.436	506.234	766.885	893.443	943.163
80	180.798	349.543	611.700	729.219	760.858
85	76.839	241.064	488.155	589.100	610.193
90	10.547	165.731	378.169	467.061	495.688
95	1.507	112.999	302.837	370.636	400.769
100	0.000	73.826	235.037	302.837	326.943
105	0.000	52.733	182.305	247.091	266.677
110	0.000	36.160	140.118	201.891	218.464
115	0.000	30.133	114.505	168.745	180.798
120	0.000	22.600	87.386	138.612	150.665
125	0.000	13.560	64.786	109.985	123.545
130	0.000	9.040	46.706	85.879	97.932
135	0.000	4.520	34.653	67.799	76.839
140	0.000	4.520	24.106	52.733	60.266
145	0.000	0.000	15.066	33.146	42.186
150	0.000	0.000	10.547	24.106	30.133
155	0.000	0.000	7.533	12.053	19.586
160	0.000	0.000	3.013	9.040	10.547
165	0.000	0.000	0.000	3.013	4.520
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	1154.22	N.A.	11.70
0-30	2443.49	N.A.	24.80
0-40	3981.99	N.A.	40.40
0-60	6922.43	N.A.	70.20
0-80	8752.62	N.A.	88.80
0-90	9212.61	N.A.	93.50
10-90	8913.78	N.A.	90.50
20-40	2827.77	N.A.	28.70
20-50	4386.65	N.A.	44.50
40-70	4024.5	N.A.	40.80
60-80	1830.19	N.A.	18.60
70-80	746.13	N.A.	7.60
80-90	459.99	N.A.	4.70
90-110	438.97	N.A.	4.50
90-120	539.61	N.A.	5.50
90-130	596.74	N.A.	6.10
90-150	637.53	N.A.	6.50
90-180	641.80	N.A.	6.50
110-180	202.82	N.A.	2.10
0-180	9854.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	298.83
10-20	855.39
20-30	1289.27
30-40	1538.5
40-50	1558.88
50-60	1381.56
60-70	1084.06
70-80	746.13
80-90	459.99
90-100	273.88
100-110	165.09
110-120	100.64
120-130	57.13
130-140	28.86
140-150	11.92
150-160	3.73
160-170	0.54
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

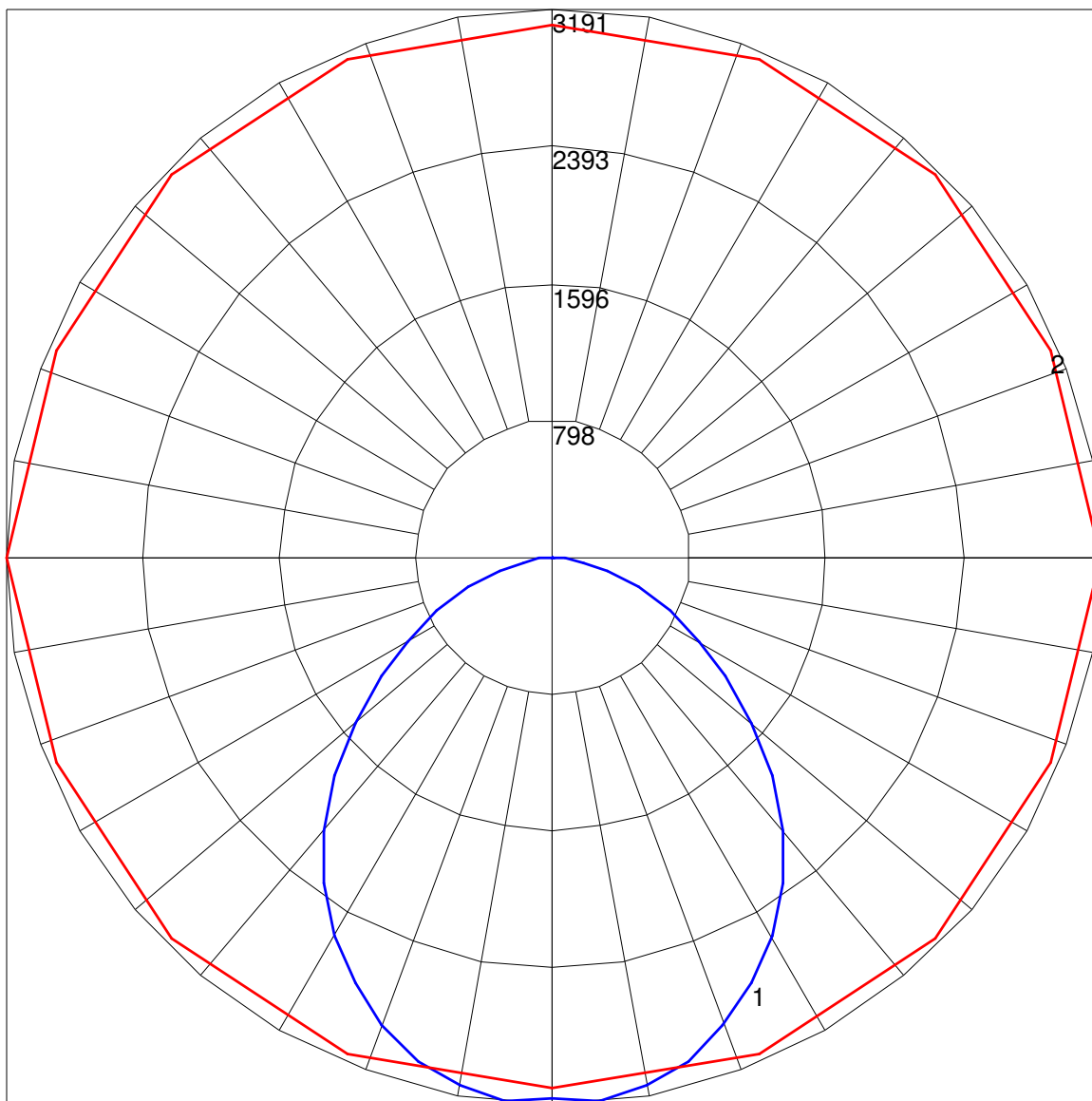
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.4	19.9	18.8	20.3	20.8	21.8	23.3	22.3	23.8	24.2
	3H	19.6	20.9	20.0	21.4	21.9	24.0	25.4	24.5	25.9	26.4
	4H	19.9	21.2	20.4	21.7	22.2	25.1	26.4	25.6	26.8	27.4
	6H	20.1	21.3	20.6	21.8	22.3	26.1	27.3	26.7	27.8	28.4
	8H	20.1	21.2	20.6	21.8	22.3	26.7	27.8	27.2	28.3	28.9
	12H	20.1	21.2	20.7	21.7	22.3	27.3	28.4	27.8	28.9	29.5
4H	2H	19.4	20.7	20.0	21.2	21.8	22.1	23.4	22.6	23.9	24.4
	3H	20.9	22.0	21.4	22.5	23.1	24.6	25.7	25.1	26.2	26.7
	4H	21.3	22.3	21.9	22.9	23.5	25.8	26.8	26.3	27.3	27.9
	6H	21.6	22.5	22.2	23.1	23.7	27.0	27.9	27.6	28.5	29.1
	8H	21.7	22.5	22.3	23.1	23.7	27.7	28.5	28.2	29.0	29.7
	12H	21.7	22.5	22.3	23.1	23.7	28.4	29.1	29.0	29.7	30.3
8H	4H	22.1	22.9	22.7	23.5	24.1	25.9	26.7	26.5	27.3	27.9
	6H	22.6	23.3	23.2	23.9	24.5	27.3	28.0	27.9	28.6	29.2
	8H	22.7	23.4	23.4	24.0	24.6	28.1	28.7	28.7	29.3	30.0
	12H	22.8	23.4	23.4	24.0	24.7	29.0	29.5	29.6	30.1	30.8
12H	4H	22.3	23.1	22.9	23.7	24.3	25.9	26.7	26.5	27.3	27.9
	6H	22.9	23.5	23.5	24.1	24.8	27.4	28.0	28.0	28.6	29.2
	8H	23.2	23.7	23.8	24.3	25.0	28.2	28.7	28.8	29.3	30.0

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 3191.085 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.)