



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L60-835-(L50)-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] 06/17/2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89.25" LONG LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L60-835-(L50)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K 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	4861
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	30
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	8614	7237	7172
55	7150	6206	6314
65	5944	5226	5319
75	4096	4310	4358
85	2606	3725	3574

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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	1556.916	1556.916	1556.916	1556.916	1556.916
5	1574.009	1550.971	1551.714	1547.998	1532.392
10	1547.998	1528.676	1532.392	1530.162	1516.042
15	1502.665	1488.545	1498.950	1503.409	1488.545
20	1434.295	1430.579	1448.415	1455.846	1446.929
25	1354.034	1359.236	1384.503	1401.596	1394.908
30	1261.882	1269.314	1312.417	1338.428	1336.941
35	1149.665	1163.042	1225.468	1261.882	1267.084
40	1030.017	1039.678	1118.453	1173.446	1186.080
45	888.817	913.341	1004.006	1076.836	1094.672
50	742.415	781.802	892.533	972.051	994.345
55	601.958	653.236	778.086	861.320	893.276
60	484.539	532.101	668.099	751.333	784.775
65	372.322	424.343	565.543	641.345	670.329
70	260.848	330.705	468.190	534.331	562.571
75	160.522	249.701	378.267	440.693	465.217
80	89.179	172.413	301.722	359.688	375.295
85	37.901	118.905	240.783	290.575	300.979
90	5.202	81.747	186.533	230.379	244.499
95	0.743	55.737	149.375	182.817	197.680
100	0.000	36.415	115.933	149.375	161.265
105	0.000	26.011	89.922	121.878	131.539
110	0.000	17.836	69.114	99.583	107.758
115	0.000	14.863	56.480	83.234	89.179
120	0.000	11.147	43.103	68.371	74.316
125	0.000	6.688	31.956	54.251	60.939
130	0.000	4.459	23.038	42.360	48.305
135	0.000	2.229	17.093	33.442	37.901
140	0.000	2.229	11.891	26.011	29.726
145	0.000	0.000	7.432	16.349	20.808
150	0.000	0.000	5.202	11.891	14.863
155	0.000	0.000	3.716	5.945	9.661
160	0.000	0.000	1.486	4.459	5.202
165	0.000	0.000	0.000	1.486	2.229
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	569.32	N.A.	11.70
0-30	1205.26	N.A.	24.80
0-40	1964.13	N.A.	40.40
0-60	3414.5	N.A.	70.20
0-80	4317.25	N.A.	88.80
0-90	4544.14	N.A.	93.50
10-90	4396.74	N.A.	90.50
20-40	1394.8	N.A.	28.70
20-50	2163.72	N.A.	44.50
40-70	1985.09	N.A.	40.80
60-80	902.75	N.A.	18.60
70-80	368.03	N.A.	7.60
80-90	226.89	N.A.	4.70
90-110	216.52	N.A.	4.50
90-120	266.17	N.A.	5.50
90-130	294.34	N.A.	6.10
90-150	314.46	N.A.	6.50
90-180	316.57	N.A.	6.50
110-180	100.04	N.A.	2.10
0-180	4860.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	147.40
10-20	421.92
20-30	635.94
30-40	758.87
40-50	768.92
50-60	681.45
60-70	534.72
70-80	368.03
80-90	226.89
90-100	135.09
100-110	81.43
110-120	49.64
120-130	28.18
130-140	14.24
140-150	5.88
150-160	1.84
160-170	0.27
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**

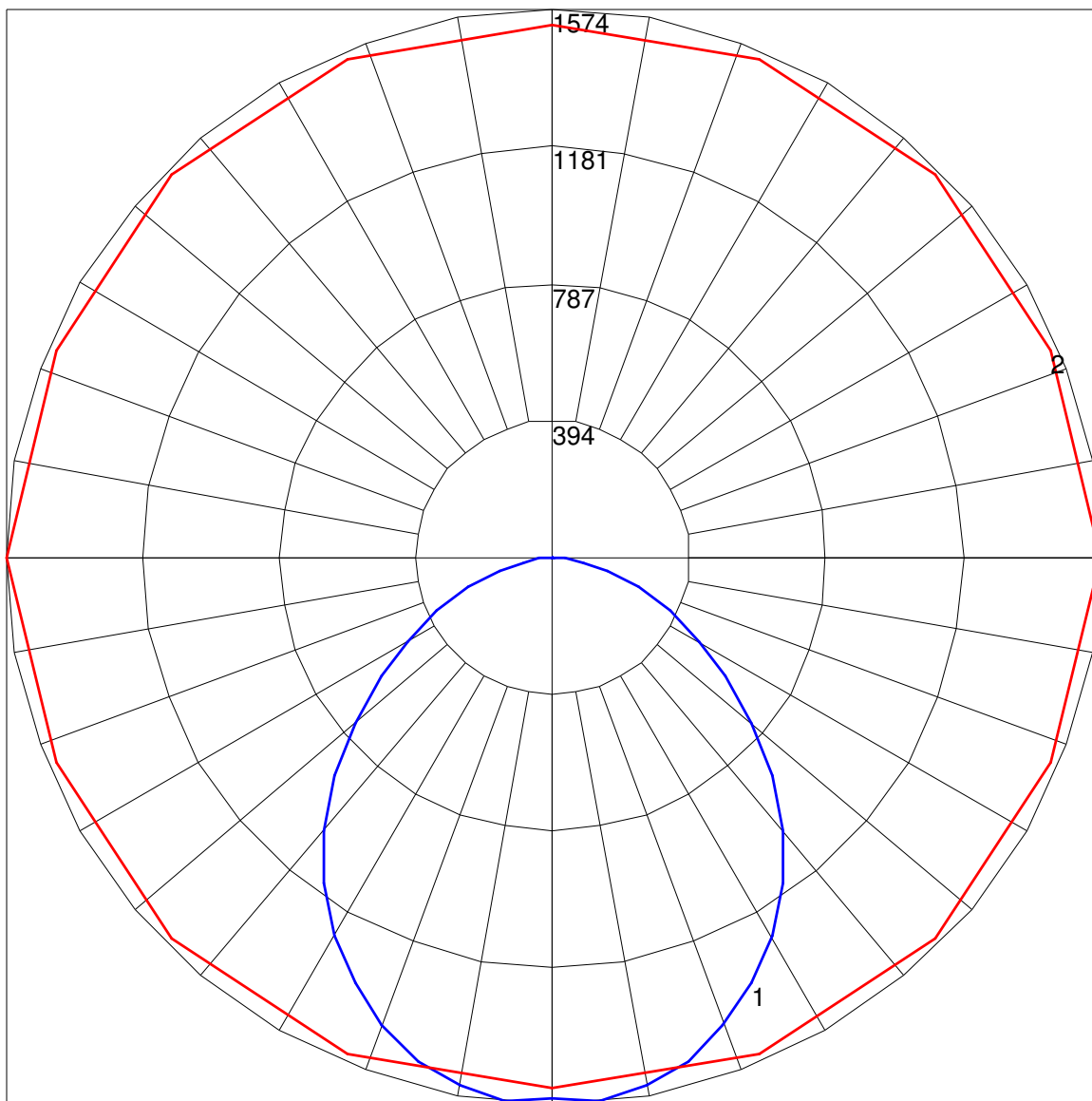
Reflectances

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	15.9	17.4	16.3	17.8	18.3	19.3	20.8	19.8	21.3	21.7
	3H	17.1	18.4	17.5	18.9	19.4	21.5	22.9	22.0	23.4	23.9
	4H	17.4	18.7	17.9	19.2	19.7	22.6	23.9	23.1	24.3	24.9
	6H	17.6	18.8	18.1	19.3	19.8	23.6	24.8	24.2	25.3	25.9
	8H	17.6	18.7	18.1	19.3	19.8	24.2	25.3	24.7	25.8	26.4
	12H	17.6	18.7	18.1	19.2	19.8	24.8	25.9	25.3	26.4	27.0
4H	2H	16.9	18.2	17.5	18.7	19.3	19.6	20.9	20.1	21.4	21.9
	3H	18.4	19.5	18.9	20.0	20.6	22.1	23.2	22.6	23.7	24.2
	4H	18.8	19.8	19.4	20.4	21.0	23.3	24.3	23.8	24.8	25.4
	6H	19.1	20.0	19.7	20.6	21.2	24.5	25.4	25.1	26.0	26.6
	8H	19.2	20.0	19.8	20.6	21.2	25.2	26.0	25.7	26.5	27.2
	12H	19.2	20.0	19.8	20.5	21.2	25.9	26.6	26.5	27.2	27.8
8H	4H	19.6	20.4	20.2	21.0	21.6	23.4	24.2	24.0	24.8	25.4
	6H	20.1	20.8	20.7	21.4	22.0	24.8	25.5	25.4	26.1	26.7
	8H	20.2	20.9	20.9	21.5	22.1	25.6	26.2	26.2	26.8	27.5
	12H	20.3	20.9	20.9	21.5	22.2	26.5	27.0	27.1	27.6	28.3
12H	4H	19.8	20.6	20.4	21.2	21.8	23.4	24.2	24.0	24.8	25.4
	6H	20.4	21.0	21.0	21.6	22.3	24.9	25.5	25.5	26.1	26.7
	8H	20.6	21.2	21.3	21.8	22.5	25.7	26.2	26.3	26.8	27.5

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 1574.009 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.)