



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-2-L30-8FS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 25-OCT-2019

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

[LUMINAIRE] 2' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-2-L30-8FS-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3078
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.62 ft
Luminous Width (90-270)	0.22 ft
Luminous Height	0.01 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	31240	29897	29531
55	30432	28809	28271
65	28329	26129	25384
75	23822	21095	20316
85	12337	11832	9881

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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	1045.029	1045.029	1045.029	1045.029	1045.029
5	1052.665	1046.120	1041.756	1038.847	1037.757
10	1041.029	1034.484	1029.393	1026.485	1025.030
15	1023.576	1015.213	1010.122	1005.759	1007.213
20	995.941	989.032	983.214	978.851	981.396
25	961.034	955.216	946.853	943.217	941.762
30	921.764	913.400	903.946	901.037	893.402
35	871.585	864.676	853.768	851.586	843.586
40	813.406	798.862	793.044	789.044	786.862
45	745.410	727.593	723.957	720.685	718.139
50	670.142	653.779	650.870	649.416	641.053
55	589.783	572.693	570.148	570.148	562.876
60	502.516	487.244	479.972	483.244	472.336
65	405.430	394.158	385.795	392.704	378.159
70	307.255	293.074	288.710	295.982	284.710
75	209.806	195.988	195.988	195.988	191.625
80	111.630	109.448	109.448	107.630	103.267
85	37.452	39.270	41.816	39.998	36.361
90	3.273	3.273	5.091	3.273	3.273
95	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
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	384.85	N.A.	12.50
0-30	822.54	N.A.	26.70
0-40	1357.87	N.A.	44.10
0-60	2428.65	N.A.	78.90
0-80	3024.86	N.A.	98.30
0-90	3076.91	N.A.	100.00
10-90	2977.76	N.A.	96.70
20-40	973.01	N.A.	31.60
20-50	1533.22	N.A.	49.80
40-70	1456.97	N.A.	47.30
60-80	596.21	N.A.	19.40
70-80	210.02	N.A.	6.80
80-90	52.05	N.A.	1.70
90-110	1.02	N.A.	0.00
90-120	1.02	N.A.	0.00
90-130	1.02	N.A.	0.00
90-150	1.02	N.A.	0.00
90-180	1.02	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3077.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.15
10-20	285.70
20-30	437.69
30-40	535.33
40-50	560.21
50-60	510.58
60-70	386.19
70-80	210.02
80-90	52.05
90-100	1.02
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
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	231	231	231	231	226	226	226	226	216	216	216	206	206	206	198	198	198	194
1	211	202	193	186	206	197	190	183	189	183	177	181	176	172	174	170	166	162
2	192	176	162	151	187	172	160	149	165	155	146	159	150	142	153	146	139	135
3	175	154	138	125	170	151	136	124	145	132	122	140	129	120	135	125	118	113
4	160	136	119	106	155	134	117	105	129	115	104	124	112	102	120	109	101	96
5	147	121	104	91	143	119	103	90	115	100	89	111	98	88	108	96	87	83
6	135	109	92	79	132	107	91	79	104	89	78	100	87	77	97	86	77	73
7	125	99	82	70	122	97	81	69	94	80	69	91	78	68	89	77	68	64
8	117	90	73	62	114	89	73	62	86	72	61	84	71	61	81	70	61	57
9	109	83	67	56	106	81	66	56	79	65	55	77	64	55	75	63	55	51
10	102	76	61	50	100	75	60	50	73	60	50	71	59	50	70	58	50	46

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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

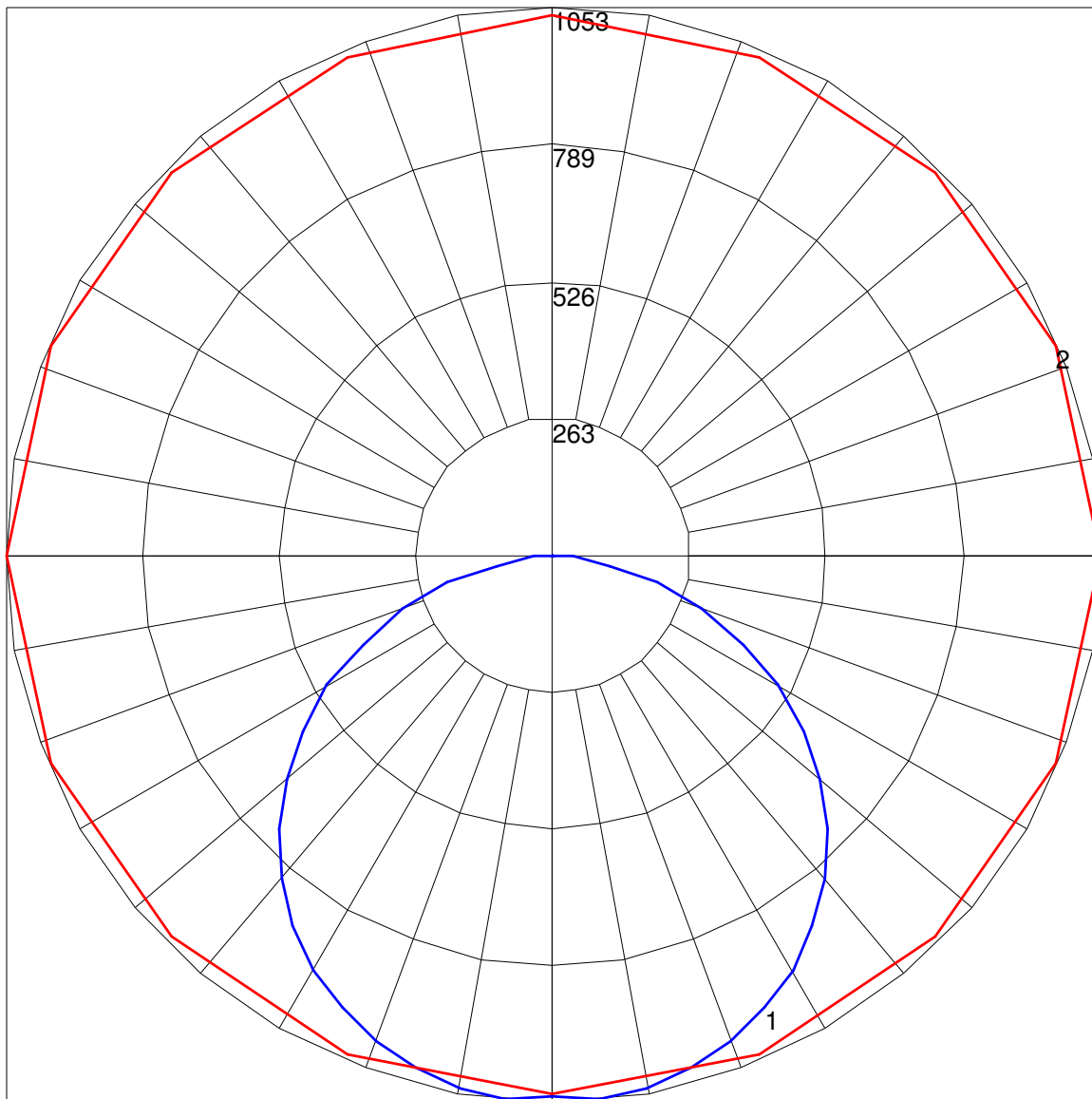
X=2H	Y=2H	21.7	23.4	22.1	23.7	24.0	21.6	23.3	22.0	23.6	23.9
	3H	23.5	25.0	23.9	25.3	25.7	23.4	24.8	23.7	25.2	25.5
	4H	24.1	25.6	24.5	25.9	26.3	23.9	25.4	24.3	25.7	26.1
	6H	24.6	25.9	25.0	26.2	26.6	24.3	25.6	24.7	26.0	26.4
	8H	24.7	25.9	25.1	26.3	26.7	24.4	25.7	24.9	26.1	26.5
	12H	24.7	25.9	25.2	26.3	26.7	24.5	25.7	24.9	26.1	26.5

UGR Viewed Endwise

4H	2H	22.3	23.7	22.7	24.1	24.4	22.2	23.6	22.6	24.0	24.3
	3H	24.3	25.5	24.7	25.9	26.3	24.2	25.4	24.6	25.8	26.2
	4H	25.0	26.1	25.5	26.5	26.9	24.9	26.0	25.3	26.4	26.8
	6H	25.6	26.5	26.0	26.9	27.4	25.4	26.3	25.8	26.8	27.2
	8H	25.7	26.6	26.2	27.0	27.5	25.5	26.4	26.0	26.8	27.3
	12H	25.8	26.6	26.3	27.0	27.5	25.6	26.4	26.1	26.9	27.3
8H	4H	25.3	26.2	25.7	26.6	27.1	25.2	26.0	25.6	26.5	26.9
	6H	25.9	26.6	26.4	27.1	27.6	25.7	26.5	26.2	27.0	27.4
	8H	26.1	26.8	26.6	27.3	27.7	26.0	26.6	26.5	27.1	27.6
	12H	26.2	26.8	26.7	27.3	27.9	26.1	26.6	26.6	27.1	27.7
12H	4H	25.3	26.1	25.8	26.6	27.0	25.2	26.0	25.7	26.4	26.9
	6H	26.0	26.6	26.5	27.1	27.6	25.8	26.5	26.3	26.9	27.4
	8H	26.2	26.8	26.7	27.2	27.8	26.0	26.6	26.5	27.1	27.6

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 1052.665 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.)