



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-2-L20-835-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-L20-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	174
Total Luminaire Watts	12.1
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	21334	20417	20167
55	20782	19674	19306
65	19346	17844	17335
75	16268	14406	13874
85	8425	8080	6748

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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	713.662	713.662	713.662	713.662	713.662
5	718.876	714.407	711.427	709.440	708.695
10	710.930	706.460	702.984	700.997	700.004
15	699.011	693.300	689.823	686.843	687.837
20	680.139	675.421	671.448	668.468	670.206
25	656.301	652.327	646.616	644.133	643.140
30	629.482	623.771	617.315	615.328	610.114
35	595.215	590.497	583.047	581.557	576.094
40	555.484	545.551	541.578	538.847	537.357
45	509.049	496.881	494.398	492.163	490.425
50	457.647	446.473	444.487	443.493	437.782
55	402.769	391.098	389.360	389.360	384.394
60	343.173	332.744	327.778	330.013	322.563
65	276.873	269.175	263.464	268.182	258.249
70	209.827	200.143	197.163	202.130	194.432
75	143.279	133.843	133.843	133.843	130.863
80	76.233	74.743	74.743	73.502	70.522
85	25.577	26.818	28.556	27.315	24.832
90	2.235	2.235	3.476	2.235	2.235
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	262.82	N.A.	12.50
0-30	561.72	N.A.	26.70
0-40	927.30	N.A.	44.10
0-60	1658.55	N.A.	78.90
0-80	2065.71	N.A.	98.30
0-90	2101.25	N.A.	100.00
10-90	2033.54	N.A.	96.70
20-40	664.48	N.A.	31.60
20-50	1047.05	N.A.	49.80
40-70	994.98	N.A.	47.30
60-80	407.16	N.A.	19.40
70-80	143.43	N.A.	6.80
80-90	35.54	N.A.	1.70
90-110	0.70	N.A.	0.00
90-120	0.70	N.A.	0.00
90-130	0.70	N.A.	0.00
90-150	0.70	N.A.	0.00
90-180	0.70	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2101.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.71
10-20	195.11
20-30	298.90
30-40	365.58
40-50	382.57
50-60	348.68
60-70	263.73
70-80	143.43
80-90	35.54
90-100	0.70
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	157	157	157	157	154	154	154	154	147	147	147	140	140	140	135	135	135	132
1	144	137	132	126	140	134	129	124	129	124	120	123	120	117	119	116	113	111
2	130	119	110	103	127	117	109	102	112	105	99	108	102	97	104	99	95	92
3	119	105	94	85	115	103	93	84	99	90	83	95	88	81	92	85	80	77
4	109	93	81	72	106	91	80	71	88	78	70	84	76	69	82	74	69	66
5	100	83	71	62	97	81	70	61	78	68	61	76	67	60	73	66	59	57
6	92	74	62	54	89	73	62	54	71	61	53	68	59	53	66	58	52	49
7	85	67	56	47	83	66	55	47	64	54	47	62	53	47	60	52	46	44
8	79	61	50	42	77	60	50	42	59	49	42	57	48	42	55	47	41	39
9	74	56	45	38	72	55	45	38	54	44	38	52	44	37	51	43	37	35
10	69	52	41	34	68	51	41	34	50	41	34	49	40	34	47	39	34	31

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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

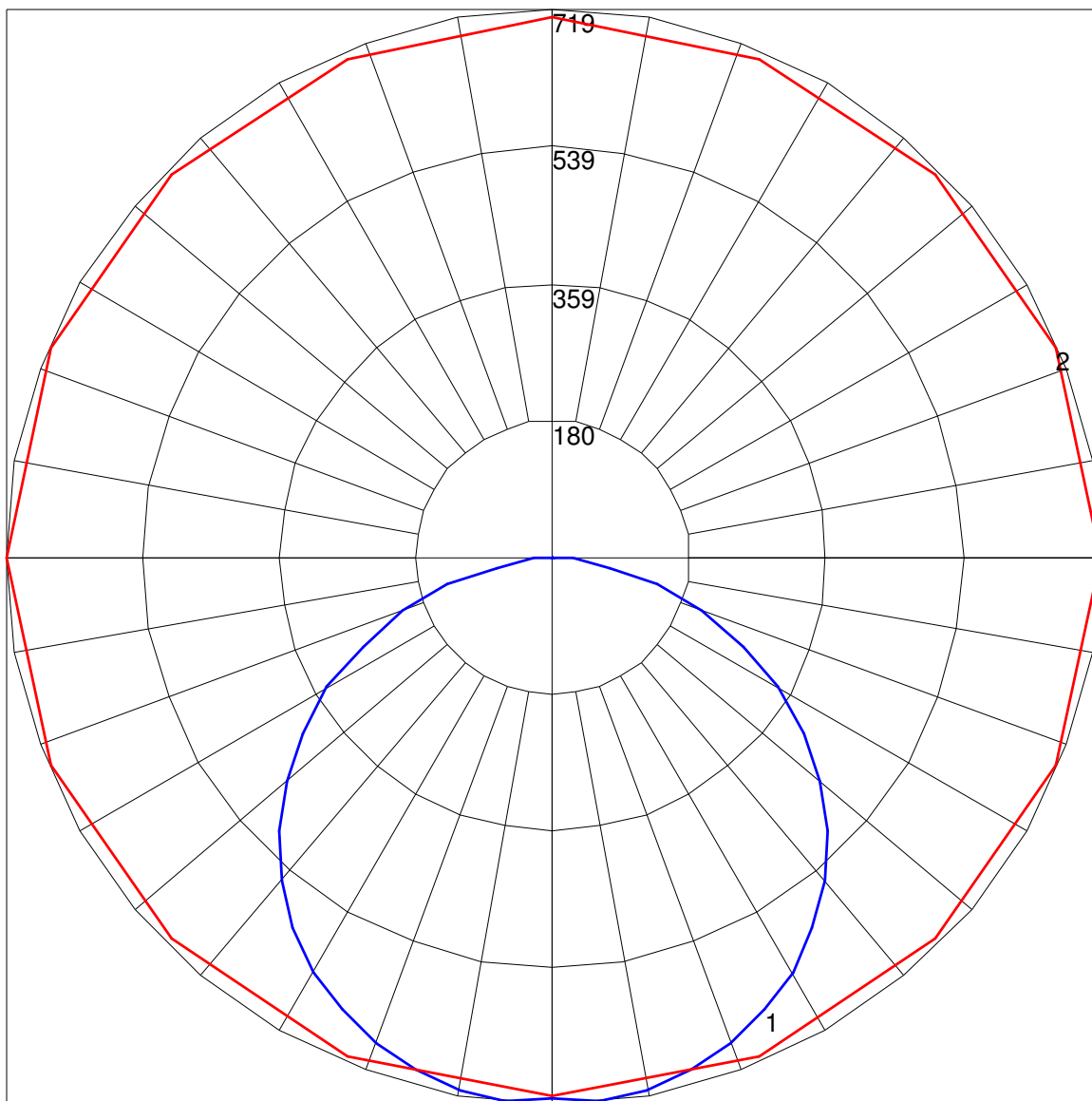
4H	2H	22.3	23.7	22.7	24.1	24.4	22.2	23.6	22.6	24.0	24.3
	3H	24.3	25.5	24.7	25.9	26.3	24.2	25.4	24.6	25.8	26.2
	4H	25.0	26.1	25.5	26.5	26.9	24.9	26.0	25.3	26.4	26.8
	6H	25.6	26.5	26.0	26.9	27.4	25.4	26.3	25.8	26.8	27.2
	8H	25.7	26.6	26.2	27.0	27.5	25.5	26.4	26.0	26.8	27.3
	12H	25.8	26.6	26.3	27.0	27.5	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 = 718.876 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.)