



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-L45-8FS-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] 4' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-4-L45-8FS-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4687
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	29.6
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)	3.62 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	21288	20363	20090
55	20753	19632	19232
65	19343	17820	17268
75	16309	14412	13821
85	8555	8142	6722

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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	1591.310	1591.310	1591.310	1591.310	1591.310
5	1602.937	1592.971	1586.327	1581.897	1580.236
10	1585.219	1575.253	1567.501	1563.071	1560.857
15	1558.642	1545.907	1538.155	1531.511	1533.726
20	1516.561	1506.041	1497.182	1490.538	1494.414
25	1463.407	1454.548	1441.813	1436.276	1434.061
30	1403.608	1390.873	1376.477	1372.048	1360.420
35	1327.199	1316.679	1300.068	1296.746	1284.565
40	1238.608	1216.461	1207.601	1201.511	1198.189
45	1135.068	1107.937	1102.400	1097.417	1093.541
50	1020.454	995.538	991.108	988.893	976.158
55	898.088	872.064	868.188	868.188	857.115
60	765.202	741.947	730.873	735.856	719.245
65	617.366	600.202	587.467	597.987	575.839
70	467.869	446.275	439.631	450.705	433.541
75	319.480	298.440	298.440	298.440	291.795
80	169.983	166.661	166.661	163.893	157.248
85	57.030	59.799	63.675	60.906	55.369
90	4.983	4.983	7.752	4.983	4.983
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	586.03	N.A.	12.50
0-30	1252.52	N.A.	26.70
0-40	2067.68	N.A.	44.10
0-60	3698.21	N.A.	78.90
0-80	4606.08	N.A.	98.30
0-90	4685.34	N.A.	100.00
10-90	4534.36	N.A.	96.70
20-40	1481.65	N.A.	31.60
20-50	2334.7	N.A.	49.80
40-70	2218.59	N.A.	47.30
60-80	907.88	N.A.	19.40
70-80	319.81	N.A.	6.80
80-90	79.26	N.A.	1.70
90-110	1.55	N.A.	0.00
90-120	1.55	N.A.	0.00
90-130	1.55	N.A.	0.00
90-150	1.55	N.A.	0.00
90-180	1.55	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4686.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.98
10-20	435.05
20-30	666.49
30-40	815.16
40-50	853.05
50-60	777.48
60-70	588.07
70-80	319.81
80-90	79.26
90-100	1.55
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	207	207	207	207	202	202	202	202	193	193	193	185	185	185	177	177	177	174
1	189	181	173	166	184	177	170	164	169	164	158	162	158	154	156	152	149	145
2	172	157	145	135	167	154	143	134	148	138	130	142	134	127	137	130	125	121
3	156	138	123	112	152	135	122	111	130	118	109	125	115	107	120	112	105	101
4	143	122	106	95	139	119	105	94	115	103	93	111	100	91	107	98	90	86
5	131	109	93	81	128	107	92	81	103	90	80	100	88	79	96	86	78	74
6	121	98	82	71	118	96	81	70	93	80	70	90	78	69	87	77	69	65
7	112	88	73	62	109	87	72	62	84	71	62	82	70	61	79	69	61	57
8	104	81	66	56	102	79	65	55	77	64	55	75	63	55	73	62	54	51
9	97	74	60	50	95	73	59	50	71	58	49	69	57	49	67	57	49	46
10	91	68	54	45	89	67	54	45	66	53	45	64	53	45	62	52	44	41

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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	20.7	22.4	21.1	22.7	23.0	20.6	22.3	21.0	22.6	22.9
	3H	22.5	24.0	22.9	24.3	24.7	22.4	23.9	22.7	24.2	24.5
	4H	23.2	24.6	23.6	24.9	25.3	23.0	24.4	23.4	24.7	25.1
	6H	23.6	24.9	24.0	25.2	25.6	23.3	24.6	23.7	25.0	25.4
	8H	23.7	24.9	24.1	25.3	25.7	23.4	24.7	23.9	25.1	25.5
	12H	23.7	24.9	24.2	25.3	25.7	23.5	24.7	23.9	25.1	25.5

UGR Viewed Endwise

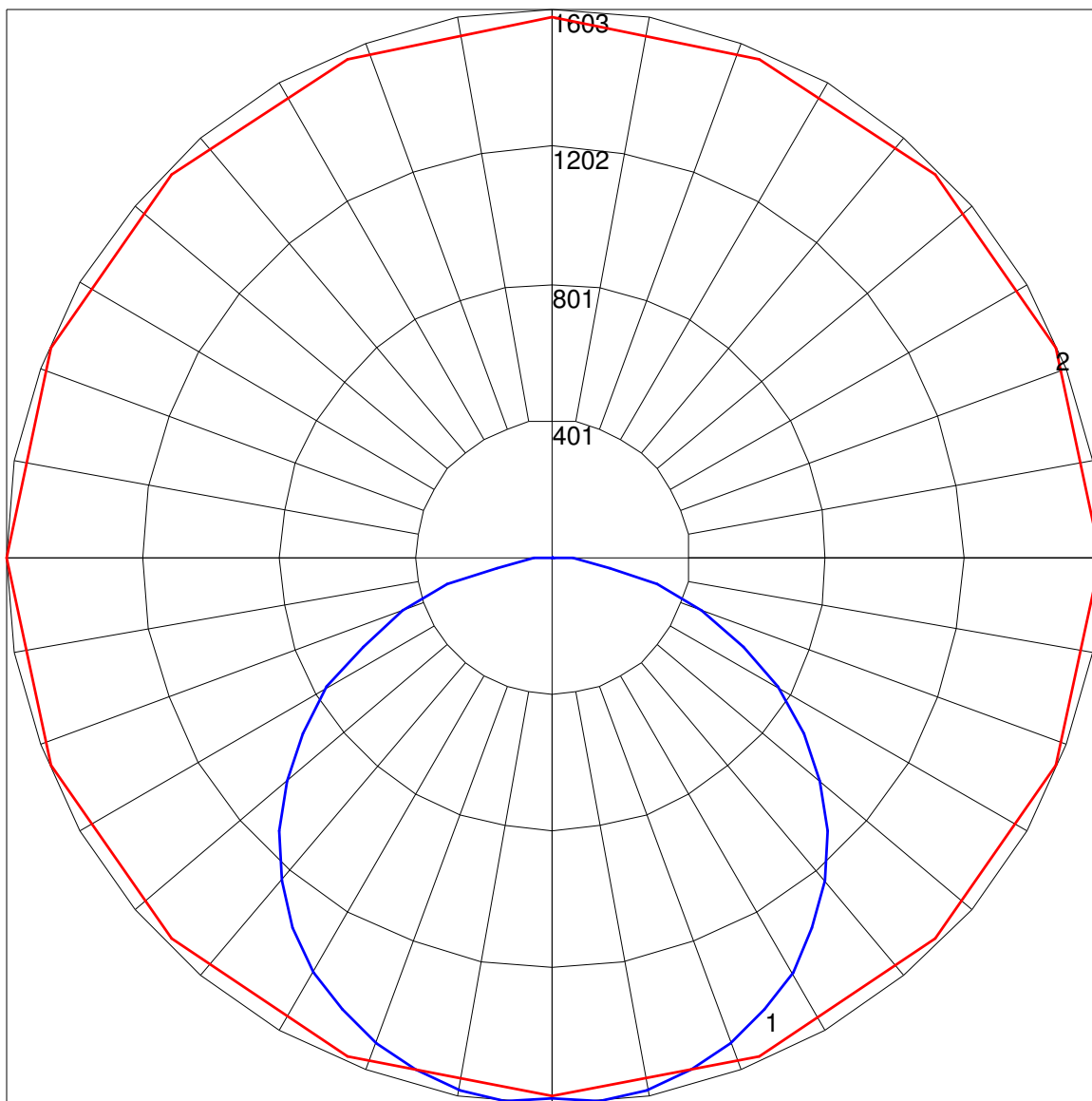
4H	2H	21.3	22.7	21.7	23.1	23.4	21.2	22.6	21.6	23.0	23.4
	3H	23.3	24.5	23.7	24.9	25.3	23.2	24.4	23.6	24.8	25.2
	4H	24.1	25.1	24.5	25.5	26.0	23.9	25.0	24.3	25.4	25.8
	6H	24.6	25.5	25.0	25.9	26.4	24.4	25.3	24.9	25.8	26.2
	8H	24.7	25.6	25.2	26.0	26.5	24.5	25.4	25.0	25.9	26.3
	12H	24.8	25.6	25.3	26.1	26.5	24.6	25.4	25.1	25.9	26.3

8H	4H	24.3	25.2	24.8	25.6	26.1	24.2	25.0	24.6	25.5	25.9
	6H	24.9	25.6	25.4	26.1	26.6	24.8	25.5	25.3	26.0	26.5
	8H	25.1	25.8	25.6	26.3	26.8	25.0	25.6	25.5	26.1	26.6
	12H	25.2	25.8	25.8	26.3	26.9	25.1	25.7	25.6	26.2	26.7

12H	4H	24.3	25.1	24.8	25.6	26.0	24.2	25.0	24.7	25.4	25.9
	6H	25.0	25.6	25.5	26.1	26.6	24.8	25.5	25.3	25.9	26.5
	8H	25.2	25.8	25.7	26.3	26.8	25.0	25.6	25.5	26.1	26.7

Maximum UGR = 26.9

POLAR GRAPH



Maximum Candela = 1602.937 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.)