



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-L60-8FS-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-L60-8FS-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6157
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	40.3
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	27965	26750	26390
55	27262	25789	25264
65	25409	23409	22684
75	21424	18932	18156
85	11238	10696	8830

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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	2090.398	2090.398	2090.398	2090.398	2090.398
5	2105.672	2092.580	2083.852	2078.033	2075.851
10	2082.397	2069.305	2059.122	2053.303	2050.394
15	2047.484	2030.755	2020.572	2011.844	2014.754
20	1992.206	1978.386	1966.749	1958.021	1963.112
25	1922.381	1910.743	1894.014	1886.740	1883.831
30	1843.827	1827.098	1808.187	1802.368	1787.094
35	1743.453	1729.633	1707.813	1703.449	1687.447
40	1627.077	1597.983	1586.346	1578.345	1573.981
45	1491.063	1455.423	1448.150	1441.604	1436.512
50	1340.502	1307.772	1301.953	1299.043	1282.314
55	1179.758	1145.573	1140.482	1140.482	1125.935
60	1005.195	974.646	960.099	966.645	944.825
65	810.993	788.445	771.716	785.536	756.442
70	614.609	586.242	577.514	592.061	569.513
75	419.680	392.041	392.041	392.041	383.312
80	223.296	218.932	218.932	215.295	206.567
85	74.917	78.554	83.645	80.008	72.735
90	6.546	6.546	10.183	6.546	6.546
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	769.83	N.A.	12.50
0-30	1645.35	N.A.	26.70
0-40	2716.17	N.A.	44.10
0-60	4858.09	N.A.	78.90
0-80	6050.71	N.A.	98.30
0-90	6154.82	N.A.	100.00
10-90	5956.49	N.A.	96.70
20-40	1946.34	N.A.	31.60
20-50	3066.94	N.A.	49.80
40-70	2914.42	N.A.	47.30
60-80	1192.62	N.A.	19.40
70-80	420.12	N.A.	6.80
80-90	104.11	N.A.	1.70
90-110	2.04	N.A.	0.00
90-120	2.04	N.A.	0.00
90-130	2.04	N.A.	0.00
90-150	2.04	N.A.	0.00
90-180	2.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6156.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	198.33
10-20	571.50
20-30	875.52
30-40	1070.82
40-50	1120.59
50-60	1021.32
60-70	772.50
70-80	420.12
80-90	104.11
90-100	2.04
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	272	272	272	272	265	265	265	265	253	253	253	243	243	243	233	233	233	228
1	248	237	227	219	242	232	223	215	222	215	208	213	207	202	205	200	196	191
2	225	206	191	178	219	202	188	175	194	182	171	186	176	167	179	171	164	159
3	205	181	162	147	199	177	160	146	170	156	143	164	151	141	158	147	138	133
4	188	160	140	124	182	157	138	123	151	135	122	146	132	120	141	129	118	113
5	172	143	122	107	168	140	121	106	135	118	105	131	116	104	126	113	103	98
6	159	128	108	93	155	126	107	93	122	105	92	118	103	91	114	101	90	85
7	147	116	96	82	143	114	95	82	111	94	81	107	92	80	104	90	80	75
8	137	106	86	73	133	104	86	73	101	84	72	98	83	72	96	82	71	67
9	128	97	78	66	125	96	78	65	93	77	65	91	75	65	88	74	64	60
10	120	90	71	59	117	88	71	59	86	70	59	84	69	59	82	68	58	54

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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

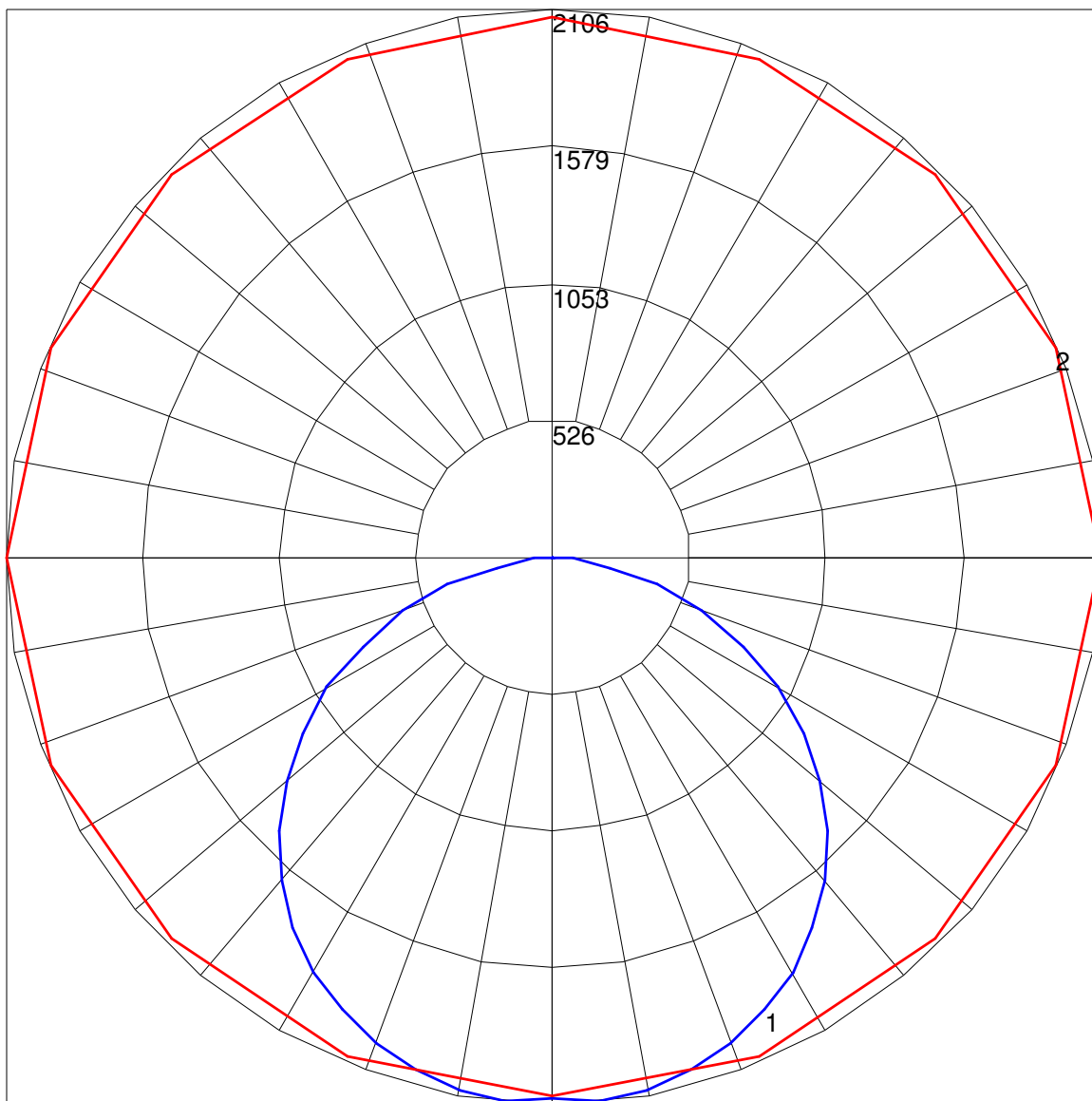
4H	2H	21.3	22.7	21.7	23.1	23.4	21.2	22.6	21.6	23.0	23.4
	3H	23.3	24.5	23.7	24.9	25.3	23.2	24.4	23.6	24.8	25.2
	4H	24.1	25.1	24.5	25.5	26.0	23.9	25.0	24.3	25.4	25.8
	6H	24.6	25.5	25.0	25.9	26.4	24.4	25.3	24.9	25.8	26.2
	8H	24.7	25.6	25.2	26.0	26.5	24.5	25.4	25.0	25.9	26.3
	12H	24.8	25.6	25.3	26.1	26.5	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 = 2105.672 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.)