



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-3-L40-835-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
 [ISSUE DATE] 25-OCT-2019
 [MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 3' STRIP w/WHITE REFLECTOR
 [LUMCAT] 75-3-L40-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	23.4
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	17846	17070	16841
55	17397	16457	16122
65	16214	14938	14476
75	13671	12081	11586
85	7171	6826	5635

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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	1333.957	1333.957	1333.957	1333.957	1333.957
5	1343.704	1335.349	1329.779	1326.066	1324.674
10	1328.851	1320.497	1313.998	1310.285	1308.429
15	1306.572	1295.897	1289.399	1283.829	1285.686
20	1271.297	1262.478	1255.052	1249.482	1252.731
25	1226.739	1219.313	1208.637	1203.996	1202.139
30	1176.611	1165.936	1153.868	1150.155	1140.408
35	1112.559	1103.740	1089.816	1087.031	1076.820
40	1038.296	1019.730	1012.303	1007.198	1004.413
45	951.500	928.757	924.115	919.938	916.689
50	855.422	834.535	830.822	828.965	818.290
55	752.845	731.031	727.782	727.782	718.499
60	641.450	621.956	612.673	616.851	602.926
65	517.523	503.135	492.459	501.278	482.712
70	392.204	374.102	368.532	377.815	363.427
75	267.812	250.175	250.175	250.175	244.605
80	142.493	139.708	139.708	137.387	131.818
85	47.807	50.128	53.377	51.056	46.415
90	4.177	4.177	6.498	4.177	4.177
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	491.26	N.A.	12.50
0-30	1049.95	N.A.	26.70
0-40	1733.29	N.A.	44.10
0-60	3100.12	N.A.	78.90
0-80	3861.17	N.A.	98.30
0-90	3927.61	N.A.	100.00
10-90	3801.05	N.A.	96.70
20-40	1242.03	N.A.	31.60
20-50	1957.12	N.A.	49.80
40-70	1859.79	N.A.	47.30
60-80	761.05	N.A.	19.40
70-80	268.09	N.A.	6.80
80-90	66.44	N.A.	1.70
90-110	1.30	N.A.	0.00
90-120	1.30	N.A.	0.00
90-130	1.30	N.A.	0.00
90-150	1.30	N.A.	0.00
90-180	1.30	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3928.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.56
10-20	364.69
20-30	558.70
30-40	683.33
40-50	715.09
50-60	651.74
60-70	492.96
70-80	268.09
80-90	66.44
90-100	1.30
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	173	173	173	173	169	169	169	169	162	162	162	155	155	155	148	148	148	146
1	158	151	145	139	154	148	142	137	142	137	133	136	132	129	131	128	125	122
2	144	132	122	113	140	129	120	112	124	116	109	119	112	107	115	109	104	101
3	131	115	103	94	127	113	102	93	109	99	91	105	97	90	101	94	88	85
4	120	102	89	79	116	100	88	79	96	86	78	93	84	77	90	82	76	72
5	110	91	78	68	107	89	77	68	86	75	67	83	74	66	81	72	66	62
6	101	82	69	59	99	81	68	59	78	67	59	75	66	58	73	64	57	54
7	94	74	61	52	91	73	61	52	71	60	52	69	59	51	67	58	51	48
8	87	68	55	47	85	67	55	46	65	54	46	63	53	46	61	52	45	43
9	82	62	50	42	80	61	50	42	59	49	41	58	48	41	56	47	41	38
10	77	57	46	38	75	56	45	38	55	45	38	54	44	37	52	44	37	35

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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

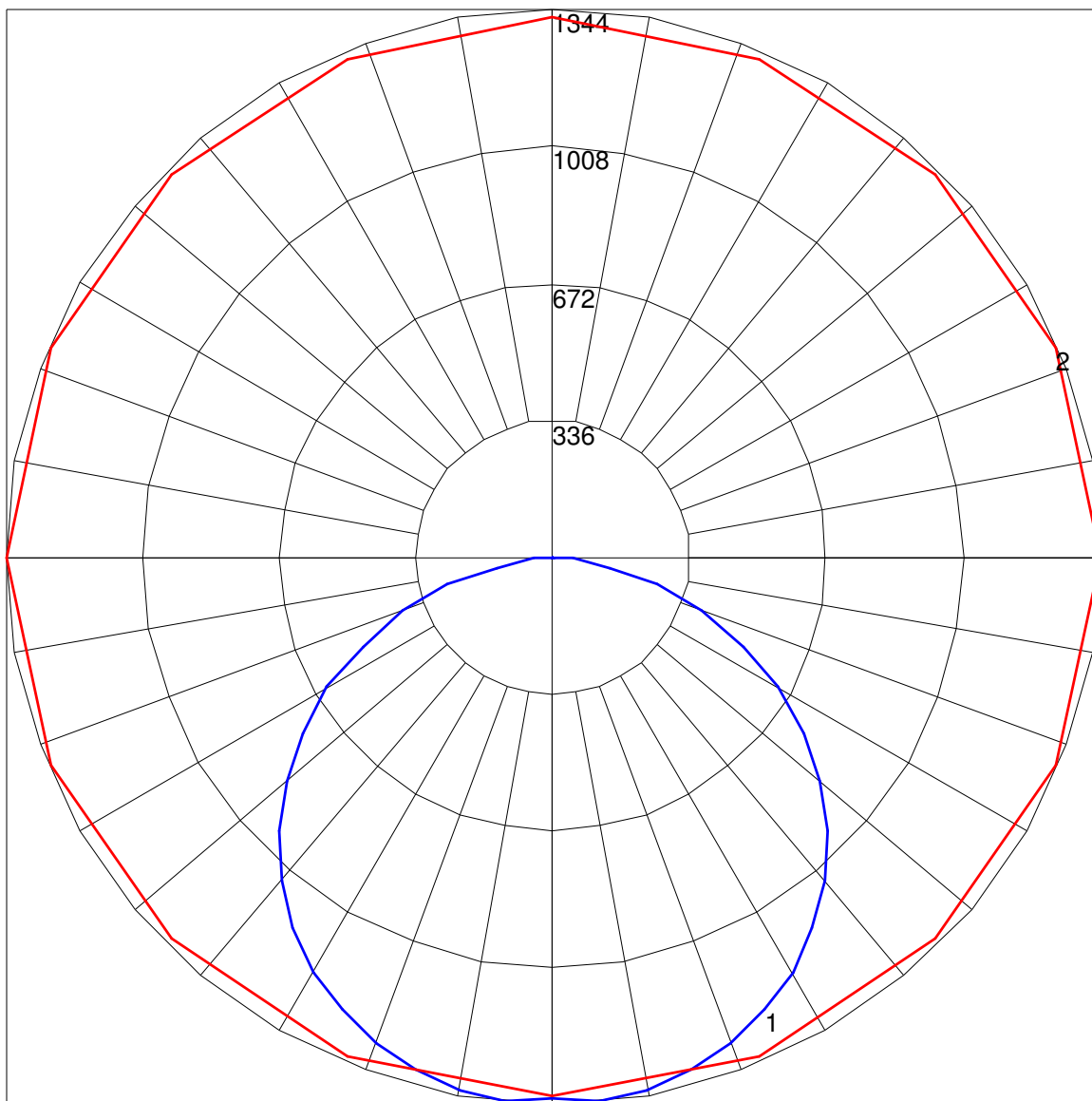
4H	2H	21.3	22.7	21.7	23.1	23.4	21.2	22.6	21.6	23.0	23.4
	3H	23.3	24.5	23.7	24.9	25.3	23.2	24.4	23.6	24.8	25.2
	4H	24.1	25.1	24.5	25.5	26.0	23.9	25.0	24.3	25.4	25.8
	6H	24.6	25.5	25.0	25.9	26.4	24.4	25.3	24.9	25.8	26.2
	8H	24.7	25.6	25.2	26.0	26.5	24.5	25.4	25.0	25.9	26.3
	12H	24.8	25.6	25.3	26.1	26.5	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 = 1343.704 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.)