H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L42-835-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] 14-AUG-2020
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-2-L42-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4344
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	138
Total Luminaire Watts	31.4
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)	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	44089	42194	41677
55	42949	40659	39899
65	39981	36876	35825
75	33620	29772	28673
85	17412	16698	13945

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1474.856	1474.856	1474.856	1474.856	1474.856
5	1485.632	1476.395	1470.237	1466.132	1464.592
10	1469.211	1459.974	1452.789	1448.684	1446.631
15	1444.579	1432.776	1425.591	1419.433	1421.486
20	1405.578	1395.827	1387.617	1381.458	1385.051
25	1356.313	1348.102	1336.299	1331.168	1329.115
30	1300.890	1289.088	1275.745	1271.640	1260.863
35	1230.073	1220.323	1204.927	1201.848	1190.559
40	1147.965	1127.438	1119.228	1113.583	1110.504
45	1052.002	1026.857	1021.725	1017.106	1013.514
50	945.776	922.683	918.578	916.525	904.722
55	832.365	808.246	804.653	804.653	794.390
60	709.203	687.650	677.387	682.005	666.610
65	572.187	556.278	544.475	554.226	533.699
70	433.630	413.616	407.458	417.722	401.814
75	296.100	276.600	276.600	276.600	270.442
80	157.544	154.465	154.465	151.899	145.741
85	52.857	55.423	59.015	56.449	51.317
90	4.619	4.619	7.184	4.619	4.619
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	543.14	N.A.	12.50
0-30	1160.86	N.A.	26.70
0-40	1916.36	N.A.	44.10
0-60	3427.57	N.A.	78.90
0-80	4269.00	N.A.	98.30
0-90	4342.46	N.A.	100.00
10-90	4202.53	N.A.	96.70
20-40	1373.22	N.A.	31.60
20-50	2163.84	N.A.	49.80
40-70	2056.23	N.A.	47.30
60-80	841.44	N.A.	19.40
70-80	296.41	N.A.	6.80
80-90	73.46	N.A.	1.70
90-110	1.44	N.A.	0.00
90-120	1.44	N.A.	0.00
90-130	1.44	N.A.	0.00
90-150	1.44	N.A.	0.00
90-180	1.44	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4343.9	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.93
10-20	403.21
20-30	617.71
30-40	755.51
40-50	790.62
50-60	720.58
60-70	545.03
70-80	296.41
80-90	73.46
90-100	1.44
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	123	123	123	123	120	120	120	120	115	115	115	110	110	110	106	106	106	104
1	113	108	103	99	110	105	101	98	101	98	95	97	94	92	93	91	89	87
2	102	94	87	81	100	92	85	80	88	83	78	85	80	76	82	78	74	72
3	93	82	74	67	91	81	73	66	77	71	65	75	69	64	72	67	63	61
4	85	73	64	56	83	71	63	56	69	61	55	66	60	55	64	58	54	52
5	78	65	55	49	76	64	55	48	61	54	48	59	53	47	57	51	47	44
6	72	58	49	42	70	57	48	42	55	48	42	54	47	41	52	46	41	39
7	67	53	44	37	65	52	43	37	50	42	37	49	42	37	47	41	36	34
8	62	48	39	33	61	47	39	33	46	38	33	45	38	33	43	37	32	30
9	58	44	36	30	57	44	35	30	42	35	30	41	34	29	40	34	29	27
10	54	41	32	27	53	40	32	27	39	32	27	38	31	27	37	31	26	25

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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					UGR Viewed Endwise				
X=2H	Y=2H	25.1	26.7	25.4	27.0	27.3	25.0	26.7	25.4	27.0	27.3
	3H	26.8	28.3	27.2	28.6	29.0	26.8	28.2	27.1	28.6	28.9
	4H	27.4	28.8	27.8	29.2	29.6	27.3	28.8	27.7	29.1	29.5
	6H	27.8	29.1	28.2	29.5	29.9	27.7	29.0	28.1	29.4	29.8
	8H	27.9	29.2	28.4	29.6	30.0	27.8	29.1	28.3	29.5	29.9
	12H	28.0	29.2	28.4	29.5	30.0	27.9	29.1	28.3	29.5	29.9
4H	2H	25.7	27.1	26.0	27.4	27.8	25.6	27.0	26.0	27.4	27.7
	3H	27.6	28.8	28.0	29.2	29.6	27.6	28.8	28.0	29.2	29.6
	4H	28.3	29.4	28.8	29.8	30.3	28.3	29.4	28.7	29.8	30.2
	6H	28.8	29.8	29.3	30.2	30.7	28.8	29.7	29.2	30.2	30.6
	8H	29.0	29.8	29.4	30.3	30.7	28.9	29.8	29.4	30.2	30.7
	12H	29.0	29.8	29.5	30.3	30.8	29.0	29.8	29.5	30.3	30.7
8H	4H	28.6	29.5	29.1	29.9	30.4	28.6	29.4	29.0	29.9	30.3
	6H	29.2	29.9	29.7	30.4	30.9	29.1	29.9	29.6	30.4	30.8
	8H	29.4	30.0	29.9	30.5	31.0	29.4	30.0	29.9	30.5	31.0
	12H	29.5	30.1	30.0	30.6	31.1	29.5	30.0	30.0	30.5	31.1
12H	4H	28.6	29.4	29.1	29.9	30.3	28.6	29.4	29.1	29.8	30.3
	6H	29.3	29.9	29.8	30.4	30.9	29.2	29.9	29.7	30.3	30.8
	8H	29.5	30.0	30.0	30.5	31.1	29.4	30.0	29.9	30.5	31.0

Maximum UGR = 31.1

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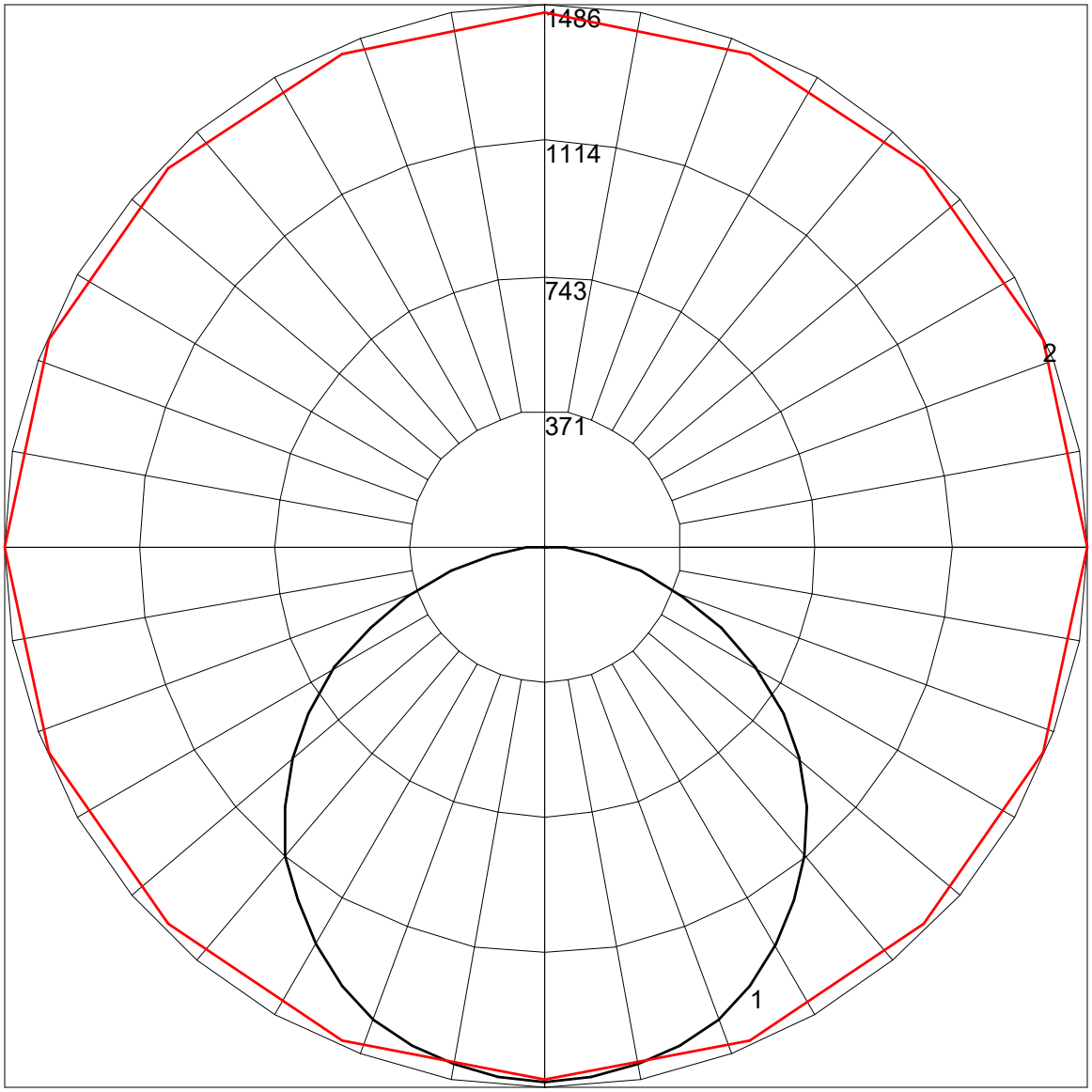
POLAR GRAPH



Maximum Candela = 1485.632 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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