H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-3-L64-835-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] 18-AUG-2020
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 3' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-3-L64-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6593
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	48.2
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)	2.80 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	38701	37024	36537
55	37721	35690	34977
65	35148	32390	31406
75	29616	26184	25136
85	15488	14768	12225

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2238.427	2238.427	2238.427	2238.427	2238.427
5	2254.783	2240.763	2231.417	2225.186	2222.850
10	2229.859	2215.840	2204.936	2198.705	2195.590
15	2192.474	2174.561	2163.657	2154.310	2157.426
20	2133.281	2118.483	2106.021	2096.675	2102.127
25	2058.511	2046.050	2028.136	2020.347	2017.232
30	1974.395	1956.481	1936.231	1930.000	1913.644
35	1866.913	1852.115	1828.749	1824.076	1806.941
40	1742.297	1711.142	1698.681	1690.113	1685.440
45	1596.651	1558.487	1550.698	1543.689	1538.237
50	1435.428	1400.380	1394.149	1391.033	1373.120
55	1263.301	1226.695	1221.243	1221.243	1205.666
60	1076.376	1043.664	1028.087	1035.097	1011.731
65	868.422	844.278	826.364	841.162	810.008
70	658.132	627.756	618.410	633.987	609.843
75	449.399	419.802	419.802	419.802	410.456
80	239.108	234.435	234.435	230.541	221.195
85	80.222	84.116	89.568	85.674	77.885
90	7.010	7.010	10.904	7.010	7.010
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	824.34	N.A.	12.50
0-30	1761.86	N.A.	26.70
0-40	2908.51	N.A.	44.10
0-60	5202.11	N.A.	78.90
0-80	6479.18	N.A.	98.30
0-90	6590.66	N.A.	100.00
10-90	6378.29	N.A.	96.70
20-40	2084.17	N.A.	31.60
20-50	3284.12	N.A.	49.80
40-70	3120.8	N.A.	47.30
60-80	1277.07	N.A.	19.40
70-80	449.87	N.A.	6.80
80-90	111.49	N.A.	1.70
90-110	2.19	N.A.	0.00
90-120	2.19	N.A.	0.00
90-130	2.19	N.A.	0.00
90-150	2.19	N.A.	0.00
90-180	2.19	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6592.85	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	212.37
10-20	611.97
20-30	937.52
30-40	1146.65
40-50	1199.95
50-60	1093.64
60-70	827.21
70-80	449.87
80-90	111.49
90-100	2.19
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	121	121	121	121	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	78	71	65	75	69	64	72	67	63	61
4	85	73	64	57	83	71	63	56	69	61	55	66	60	55	64	58	54	52
5	78	65	56	49	76	64	55	48	62	54	48	59	53	47	58	52	47	44
6	72	58	49	42	70	57	49	42	55	48	42	54	47	41	52	46	41	39
7	67	53	44	37	65	52	43	37	50	43	37	49	42	37	47	41	36	34
8	62	48	39	33	61	47	39	33	46	38	33	45	38	33	44	37	32	30
9	58	44	36	30	57	44	35	30	42	35	30	41	34	29	40	34	29	27
10	55	41	32	27	53	40	32	27	39	32	27	38	31	27	37	31	27	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	24.5	26.2	24.9	26.5	26.8	24.5	26.2	24.9	26.5	26.8
	3H	26.3	27.8	26.7	28.1	28.5	26.3	27.7	26.6	28.1	28.4
	4H	26.9	28.3	27.3	28.7	29.1	26.8	28.3	27.2	28.6	29.0
	6H	27.3	28.6	27.7	29.0	29.4	27.2	28.5	27.6	28.9	29.3
	8H	27.4	28.7	27.8	29.1	29.5	27.3	28.6	27.8	29.0	29.4
	12H	27.5	28.7	27.9	29.0	29.5	27.4	28.6	27.8	29.0	29.4
4H	2H	25.1	26.6	25.5	26.9	27.3	25.1	26.5	25.5	26.9	27.2
	3H	27.1	28.3	27.5	28.7	29.1	27.1	28.3	27.5	28.7	29.1
	4H	27.8	28.9	28.3	29.3	29.7	27.8	28.9	28.2	29.3	29.7
	6H	28.3	29.3	28.8	29.7	30.2	28.3	29.2	28.7	29.7	30.1
	8H	28.5	29.3	28.9	29.8	30.2	28.4	29.3	28.9	29.7	30.2
	12H	28.5	29.3	29.0	29.8	30.3	28.5	29.3	29.0	29.8	30.2
8H	4H	28.1	29.0	28.6	29.4	29.9	28.1	28.9	28.5	29.4	29.8
	6H	28.7	29.4	29.2	29.9	30.4	28.7	29.4	29.1	29.9	30.3
	8H	28.9	29.5	29.4	30.0	30.5	28.9	29.5	29.4	30.0	30.5
	12H	29.0	29.6	29.5	30.1	30.6	29.0	29.6	29.5	30.0	30.6
12H	4H	28.1	28.9	28.6	29.4	29.8	28.1	28.9	28.6	29.3	29.8
	6H	28.7	29.4	29.3	29.9	30.4	28.7	29.4	29.2	29.8	30.4
	8H	29.0	29.5	29.5	30.0	30.6	28.9	29.5	29.4	30.0	30.6

Maximum UGR = 30.6

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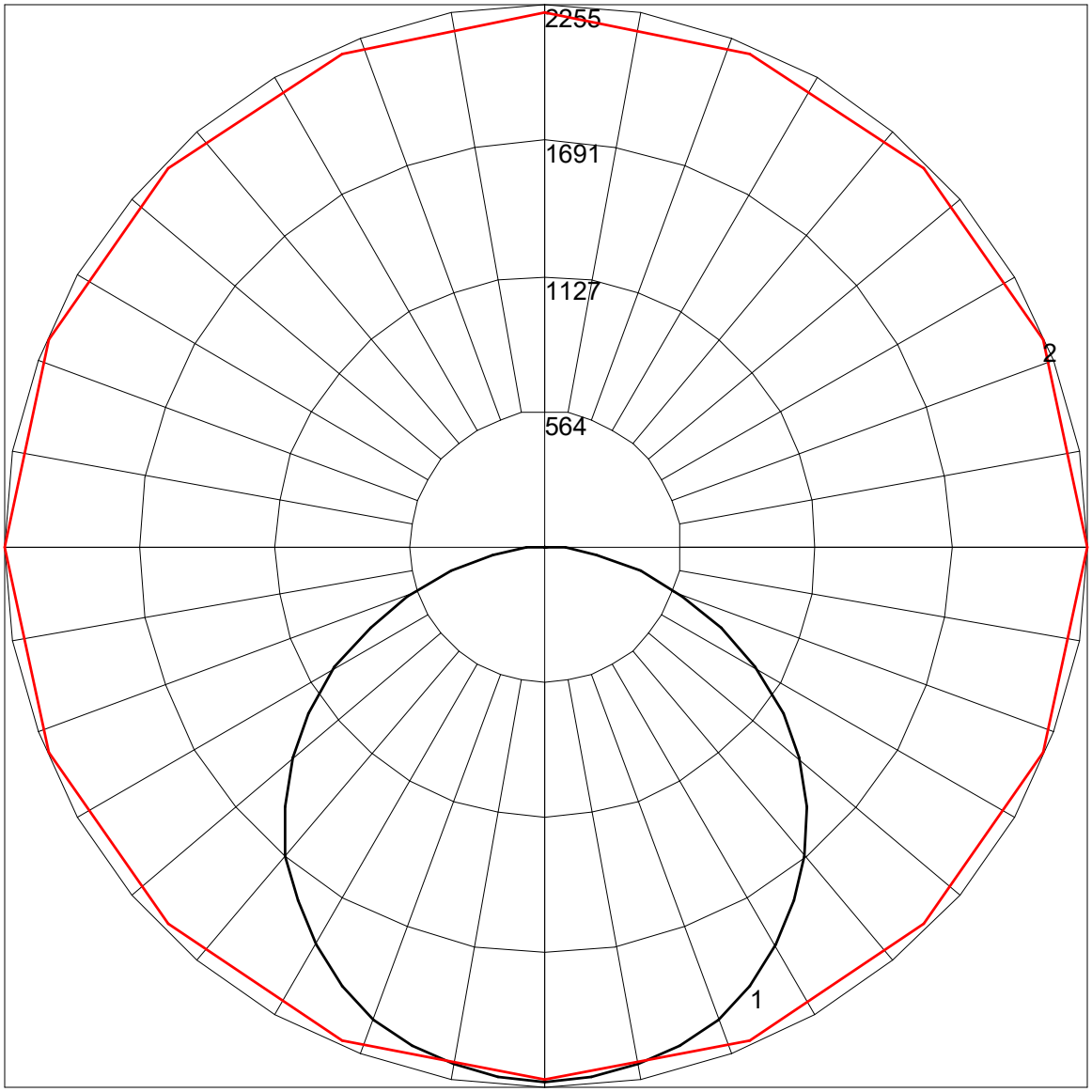
POLAR GRAPH



Maximum Candela = 2254.783 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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