H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-2-L60-835-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-L60-835-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6052
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	43.6
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)	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	61424	58785	58064
55	59835	56645	55586
65	55702	51376	49911
75	46839	41477	39946
85	24258	23264	19428

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2054.749	2054.749	2054.749	2054.749	2054.749
5	2069.762	2056.893	2048.314	2042.595	2040.450
10	2046.884	2034.015	2024.006	2018.286	2015.427
15	2012.567	1996.123	1986.114	1977.535	1980.394
20	1958.231	1944.647	1933.208	1924.629	1929.633
25	1889.597	1878.157	1861.714	1854.564	1851.705
30	1812.383	1795.939	1777.350	1771.631	1756.617
35	1713.720	1700.136	1678.688	1674.398	1658.670
40	1599.329	1570.732	1559.292	1551.428	1547.138
45	1465.635	1430.603	1423.453	1417.019	1412.014
50	1317.641	1285.469	1279.749	1276.890	1260.446
55	1159.639	1126.037	1121.032	1121.032	1106.733
60	988.052	958.025	943.726	950.160	928.712
65	797.162	774.999	758.555	772.139	743.542
70	604.128	576.245	567.665	581.964	559.801
75	412.523	385.355	385.355	385.355	376.775
80	219.488	215.198	215.198	211.623	203.044
85	73.639	77.214	82.219	78.644	71.494
90	6.434	6.434	10.009	6.434	6.434
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	756.70	N.A.	12.50
0-30	1617.29	N.A.	26.70
0-40	2669.85	N.A.	44.10
0-60	4775.24	N.A.	78.90
0-80	5947.52	N.A.	98.30
0-90	6049.86	N.A.	100.00
10-90	5854.91	N.A.	96.70
20-40	1913.15	N.A.	31.60
20-50	3014.63	N.A.	49.80
40-70	2864.72	N.A.	47.30
60-80	1172.28	N.A.	19.40
70-80	412.95	N.A.	6.80
80-90	102.34	N.A.	1.70
90-110	2.01	N.A.	0.00
90-120	2.01	N.A.	0.00
90-130	2.01	N.A.	0.00
90-150	2.01	N.A.	0.00
90-180	2.01	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6051.86	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.95
10-20	561.75
20-30	860.59
30-40	1052.56
40-50	1101.48
50-60	1003.9
60-70	759.33
70-80	412.95
80-90	102.34
90-100	2.01
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	129	129	129	129	126	126	126	126	121	121	121	115	115	115	111	111	111	108
1	118	113	108	104	115	110	106	102	106	102	99	101	99	96	98	95	93	91
2	107	98	91	84	104	96	89	83	92	86	81	89	84	80	85	81	78	75
3	98	86	77	70	95	84	76	69	81	74	68	78	72	67	75	70	66	63
4	89	76	66	59	87	75	66	59	72	64	58	69	63	57	67	61	56	54
5	82	68	58	51	80	67	57	50	64	56	50	62	55	49	60	54	49	46
6	76	61	51	44	74	60	51	44	58	50	44	56	49	43	54	48	43	41
7	70	55	46	39	68	54	45	39	53	44	39	51	44	38	50	43	38	36
8	65	50	41	35	63	50	41	35	48	40	34	47	39	34	46	39	34	32
9	61	46	37	31	59	46	37	31	44	36	31	43	36	31	42	35	31	29
10	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	28	26

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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	26.1	27.7	26.4	28.0	28.3	26.0	27.7	26.4	28.0	28.3
	3H	27.8	29.3	28.2	29.6	30.0	27.8	29.2	28.1	29.6	29.9
	4H	28.4	29.8	28.8	30.2	30.6	28.3	29.8	28.7	30.1	30.5
	6H	28.8	30.1	29.2	30.5	30.9	28.7	30.0	29.1	30.4	30.8
	8H	28.9	30.2	29.4	30.6	31.0	28.8	30.1	29.3	30.5	30.9
	12H	29.0	30.2	29.4	30.5	31.0	28.9	30.1	29.3	30.5	30.9
4H	2H	26.7	28.1	27.0	28.4	28.8	26.6	28.0	27.0	28.4	28.7
	3H	28.6	29.8	29.0	30.2	30.6	28.6	29.8	29.0	30.2	30.6
	4H	29.3	30.4	29.8	30.8	31.3	29.3	30.4	29.7	30.8	31.2
	6H	29.8	30.8	30.3	31.2	31.7	29.8	30.7	30.2	31.2	31.6
	8H	30.0	30.8	30.4	31.3	31.7	29.9	30.8	30.4	31.2	31.7
	12H	30.0	30.8	30.5	31.3	31.8	30.0	30.8	30.5	31.3	31.7
8H	4H	29.6	30.5	30.1	30.9	31.4	29.6	30.4	30.0	30.9	31.3
	6H	30.2	30.9	30.7	31.4	31.9	30.1	30.9	30.6	31.4	31.8
	8H	30.4	31.0	30.9	31.5	32.0	30.4	31.0	30.9	31.5	32.0
	12H	30.5	31.1	31.0	31.6	32.1	30.5	31.0	31.0	31.5	32.1
12H	4H	29.6	30.4	30.1	30.9	31.3	29.6	30.4	30.1	30.8	31.3
	6H	30.3	30.9	30.8	31.4	31.9	30.2	30.9	30.7	31.3	31.8
	8H	30.5	31.0	31.0	31.5	32.1	30.4	31.0	30.9	31.5	32.0

Maximum UGR = 32.1

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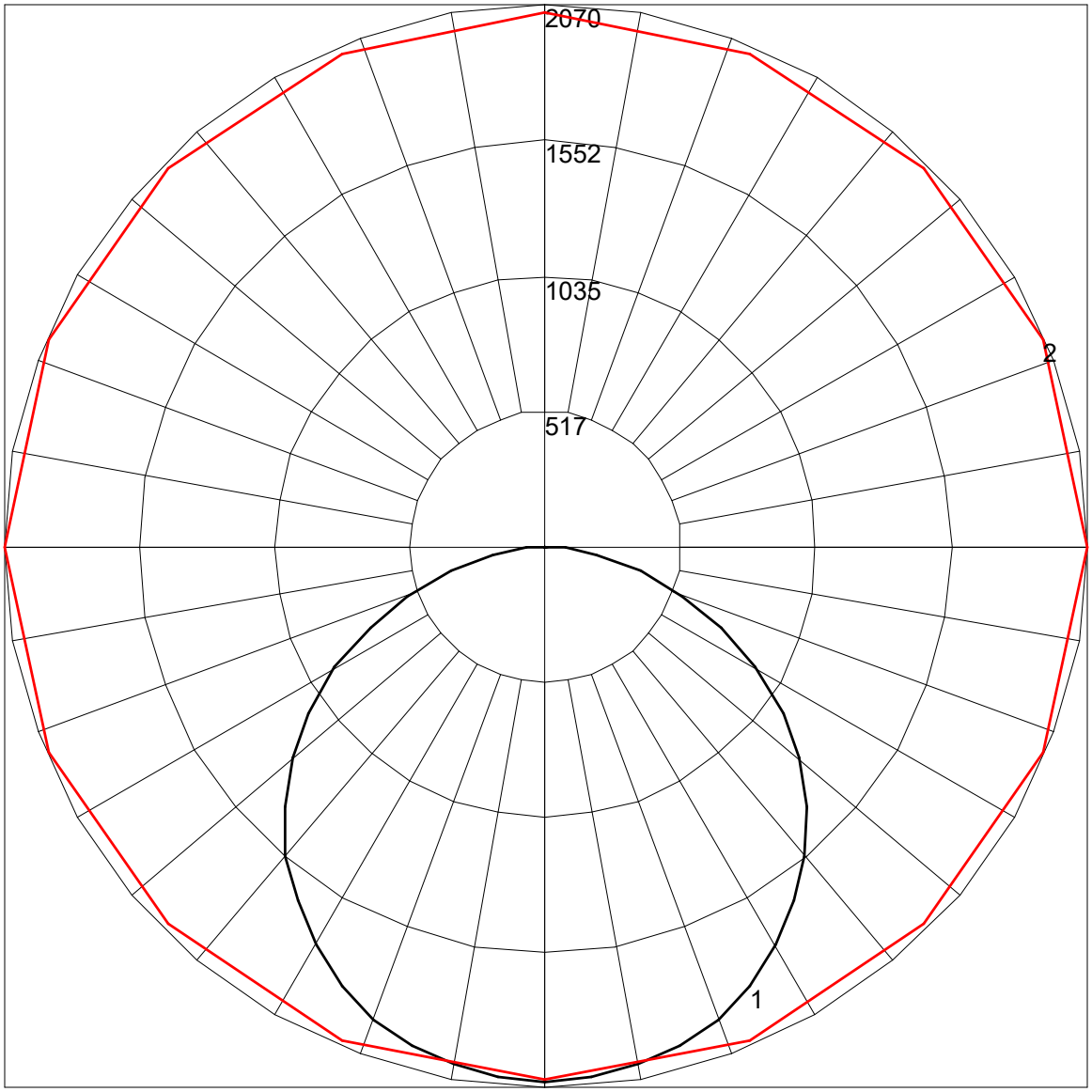
POLAR GRAPH



Maximum Candela = 2069.762 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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