H.E. WILLIAMS, INC.

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
[ISSUEDATE] 18-AUG-2020
[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	4092
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	28.2
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	24020	22979	22677
55	23412	22151	21709
65	21815	20103	19492
75	18381	16251	15601
85	9613	9166	7587

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1389.298	1389.298	1389.298	1389.298	1389.298
5	1399.449	1390.748	1384.947	1381.080	1379.630
10	1383.980	1375.279	1368.512	1364.644	1362.711
15	1360.777	1349.659	1342.891	1337.090	1339.024
20	1324.039	1314.854	1307.120	1301.319	1304.703
25	1277.632	1269.898	1258.779	1253.945	1252.012
30	1225.425	1214.306	1201.738	1197.871	1187.719
35	1158.715	1149.530	1135.028	1132.128	1121.493
40	1081.371	1062.035	1054.300	1048.983	1046.082
45	990.974	967.288	962.454	958.103	954.719
50	890.910	869.157	865.290	863.356	852.238
55	784.078	761.358	757.975	757.975	748.307
60	668.062	647.759	638.091	642.442	627.939
65	538.993	524.008	512.890	522.074	502.738
70	408.475	389.622	383.821	393.489	378.504
75	278.923	260.554	260.554	260.554	254.753
80	148.404	145.504	145.504	143.087	137.286
85	49.790	52.207	55.591	53.174	48.340
90	4.351	4.351	6.768	4.351	4.351
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	511.64	N.A.	12.50
0-30	1093.51	N.A.	26.70
0-40	1805.19	N.A.	44.10
0-60	3228.73	N.A.	78.90
0-80	4021.36	N.A.	98.30
0-90	4090.55	N.A.	100.00
10-90	3958.74	N.A.	96.70
20-40	1293.56	N.A.	31.60
20-50	2038.32	N.A.	49.80
40-70	1936.95	N.A.	47.30
60-80	792.63	N.A.	19.40
70-80	279.21	N.A.	6.80
80-90	69.19	N.A.	1.70
90-110	1.36	N.A.	0.00
90-120	1.36	N.A.	0.00
90-130	1.36	N.A.	0.00
90-150	1.36	N.A.	0.00
90-180	1.36	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4091.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	131.81
10-20	379.82
20-30	581.88
30-40	711.68
40-50	744.76
50-60	678.78
60-70	513.41
70-80	279.21
80-90	69.19
90-100	1.36
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	74	74	74	74	72	72	72	72	69	69	69	66	66	66	63	63	63	62
1	67	65	62	59	66	63	61	58	60	58	57	58	56	55	56	54	53	52
2	61	56	52	48	60	55	51	48	53	49	47	51	48	46	49	47	45	43
3	56	49	44	40	54	48	43	40	46	42	39	45	41	38	43	40	38	36
4	51	44	38	34	50	43	38	34	41	37	33	40	36	33	38	35	32	31
5	47	39	33	29	46	38	33	29	37	32	29	36	31	28	34	31	28	27
6	43	35	29	25	42	34	29	25	33	28	25	32	28	25	31	27	24	23
7	40	32	26	22	39	31	26	22	30	25	22	29	25	22	28	25	22	20
8	37	29	24	20	36	28	23	20	28	23	20	27	23	20	26	22	19	18
9	35	26	21	18	34	26	21	18	25	21	18	25	21	18	24	20	17	16
10	33	24	19	16	32	24	19	16	23	19	16	23	19	16	22	19	16	15

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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	24.7	26.4	25.1	26.7	27.0	24.7	26.4	25.1	26.7	27.0
	3H	26.5	28.0	26.9	28.3	28.7	26.5	27.9	26.8	28.3	28.6
	4H	27.1	28.5	27.5	28.9	29.3	27.0	28.5	27.4	28.8	29.2
	6H	27.5	28.8	27.9	29.2	29.6	27.4	28.7	27.8	29.1	29.5
	8H	27.6	28.9	28.0	29.3	29.7	27.5	28.8	28.0	29.2	29.6
	12H	27.7	28.9	28.1	29.2	29.7	27.6	28.8	28.0	29.2	29.6
4H	2H	25.3	26.8	25.7	27.1	27.5	25.3	26.7	25.7	27.1	27.4
	3H	27.3	28.5	27.7	28.9	29.3	27.3	28.5	27.7	28.9	29.3
	4H	28.0	29.1	28.5	29.5	29.9	28.0	29.1	28.4	29.5	29.9
	6H	28.5	29.5	29.0	29.9	30.4	28.5	29.4	28.9	29.9	30.3
	8H	28.7	29.5	29.1	30.0	30.4	28.6	29.5	29.1	29.9	30.4
	12H	28.7	29.5	29.2	30.0	30.5	28.7	29.5	29.2	30.0	30.4
8H	4H	28.3	29.2	28.8	29.6	30.1	28.3	29.1	28.7	29.6	30.0
	6H	28.9	29.6	29.4	30.1	30.6	28.9	29.6	29.3	30.1	30.5
	8H	29.1	29.7	29.6	30.2	30.7	29.1	29.7	29.6	30.2	30.7
	12H	29.2	29.8	29.7	30.3	30.8	29.2	29.8	29.7	30.2	30.8
12H	4H	28.3	29.1	28.8	29.6	30.0	28.3	29.1	28.8	29.5	30.0
	6H	28.9	29.6	29.5	30.1	30.6	28.9	29.6	29.4	30.0	30.6
	8H	29.2	29.7	29.7	30.2	30.8	29.1	29.7	29.6	30.2	30.8

Maximum UGR = 30.8

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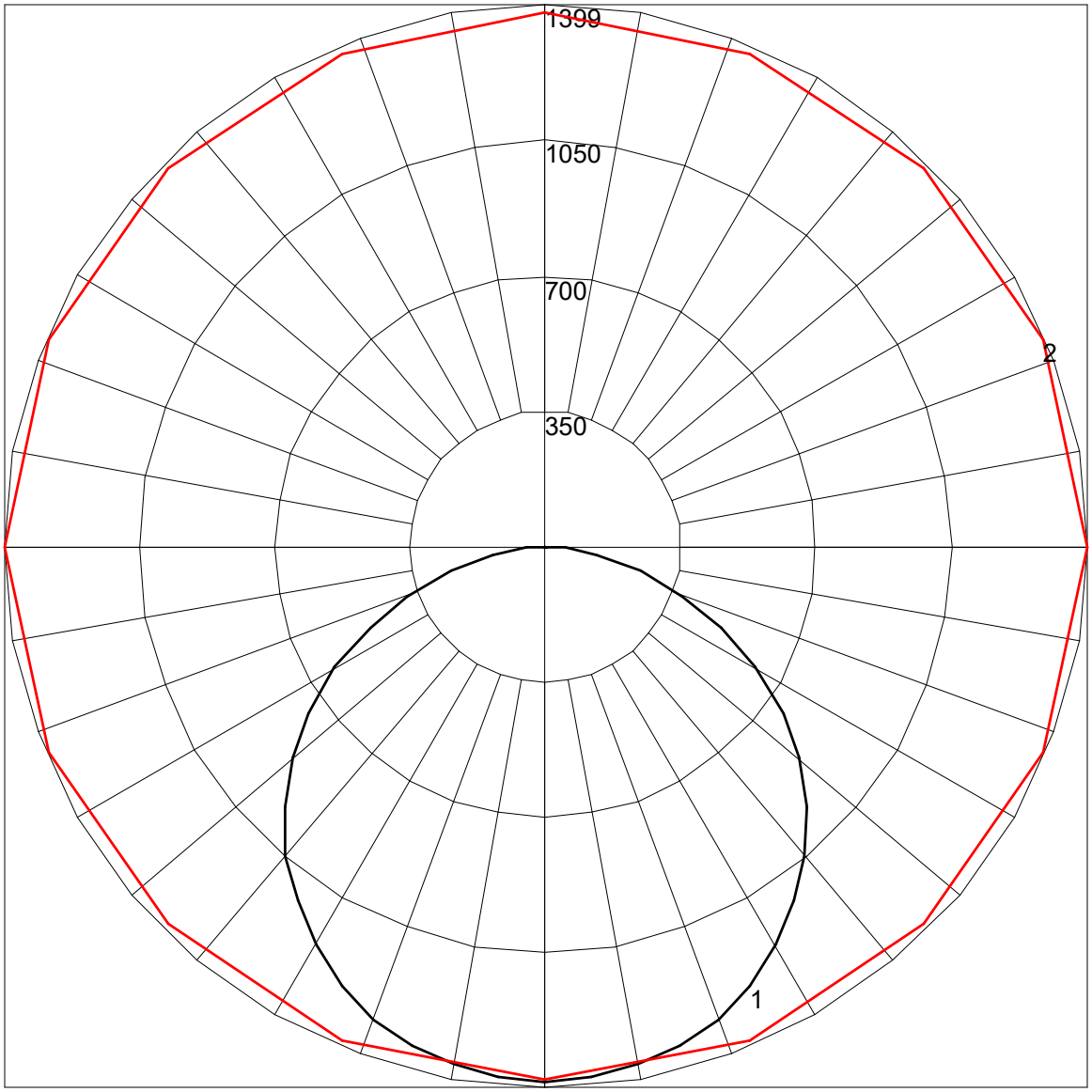
POLAR GRAPH



Maximum Candela = 1399.449 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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