H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-4-L50-840-EM10WLP-DRV-UNV_(EMER MODE).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] 09-21-2022
[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4' STRIP w/WHITE REFLECTOR
[LUMCAT] 75-4-L50-840-EM10WLP-DRV-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1600
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	10
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	7267	6951	6858
55	7084	6702	6565
65	6603	6083	5895
75	5567	4920	4718
85	2920	2780	2295

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	543.225	543.225	543.225	543.225	543.225
5	547.194	543.792	541.524	540.012	539.445
10	541.146	537.744	535.098	533.585	532.829
15	532.073	527.726	525.080	522.812	523.568
20	517.708	514.117	511.093	508.825	510.148
25	499.563	496.539	492.191	490.301	489.545
30	479.149	474.802	469.888	468.376	464.406
35	453.066	449.474	443.804	442.670	438.512
40	422.823	415.263	412.239	410.160	409.025
45	387.478	378.216	376.326	374.625	373.302
50	348.352	339.846	338.334	337.578	333.231
55	306.580	297.696	296.373	296.373	292.593
60	261.217	253.278	249.498	251.199	245.529
65	210.750	204.891	200.543	204.135	196.574
70	159.716	152.345	150.077	153.857	147.998
75	109.061	101.878	101.878	101.878	99.610
80	58.027	56.893	56.893	55.948	53.680
85	19.468	20.413	21.737	20.791	18.901
90	1.701	1.701	2.646	1.701	1.701
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	200.05	N.A.	12.50
0-30	427.57	N.A.	26.70
0-40	705.84	N.A.	44.10
0-60	1262.46	N.A.	78.90
0-80	1572.38	N.A.	98.30
0-90	1599.43	N.A.	100.00
10-90	1547.89	N.A.	96.70
20-40	505.79	N.A.	31.60
20-50	797.00	N.A.	49.80
40-70	757.36	N.A.	47.30
60-80	309.92	N.A.	19.40
70-80	109.17	N.A.	6.80
80-90	27.06	N.A.	1.70
90-110	0.53	N.A.	0.00
90-120	0.53	N.A.	0.00
90-130	0.53	N.A.	0.00
90-150	0.53	N.A.	0.00
90-180	0.53	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1599.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.54
10-20	148.51
20-30	227.52
30-40	278.27
40-50	291.21
50-60	265.41
60-70	200.75
70-80	109.17
80-90	27.06
90-100	0.53
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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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	18.9	20.5	19.2	20.8	21.1	18.8	20.5	19.2	20.8	21.1
	3H	20.6	22.1	21.0	22.4	22.8	20.6	22.1	20.9	22.4	22.7
	4H	21.2	22.6	21.6	23.0	23.4	21.2	22.6	21.6	22.9	23.3
	6H	21.6	22.9	22.0	23.3	23.7	21.5	22.8	21.9	23.2	23.6
	8H	21.7	23.0	22.2	23.4	23.8	21.6	22.9	22.1	23.3	23.7
	12H	21.8	23.0	22.2	23.4	23.8	21.7	22.9	22.1	23.3	23.7
4H	2H	19.5	20.9	19.9	21.2	21.6	19.4	20.8	19.8	21.2	21.6
	3H	21.4	22.6	21.8	23.0	23.4	21.4	22.6	21.8	23.0	23.4
	4H	22.1	23.2	22.6	23.6	24.1	22.1	23.2	22.5	23.6	24.0
	6H	22.6	23.6	23.1	24.0	24.5	22.6	23.5	23.1	24.0	24.4
	8H	22.8	23.6	23.2	24.1	24.6	22.7	23.6	23.2	24.1	24.5
	12H	22.8	23.6	23.3	24.1	24.6	22.8	23.6	23.3	24.1	24.5
8H	4H	22.4	23.3	22.9	23.7	24.2	22.4	23.2	22.8	23.7	24.1
	6H	23.0	23.7	23.5	24.2	24.7	23.0	23.7	23.5	24.2	24.7
	8H	23.2	23.8	23.7	24.3	24.8	23.2	23.8	23.7	24.3	24.8
	12H	23.3	23.9	23.8	24.4	24.9	23.3	23.9	23.8	24.4	24.9
12H	4H	22.4	23.2	22.9	23.7	24.2	22.4	23.2	22.9	23.6	24.1
	6H	23.1	23.7	23.6	24.2	24.7	23.0	23.7	23.5	24.1	24.7
	8H	23.3	23.8	23.8	24.3	24.9	23.2	23.8	23.7	24.3	24.9

Maximum UGR = 24.9

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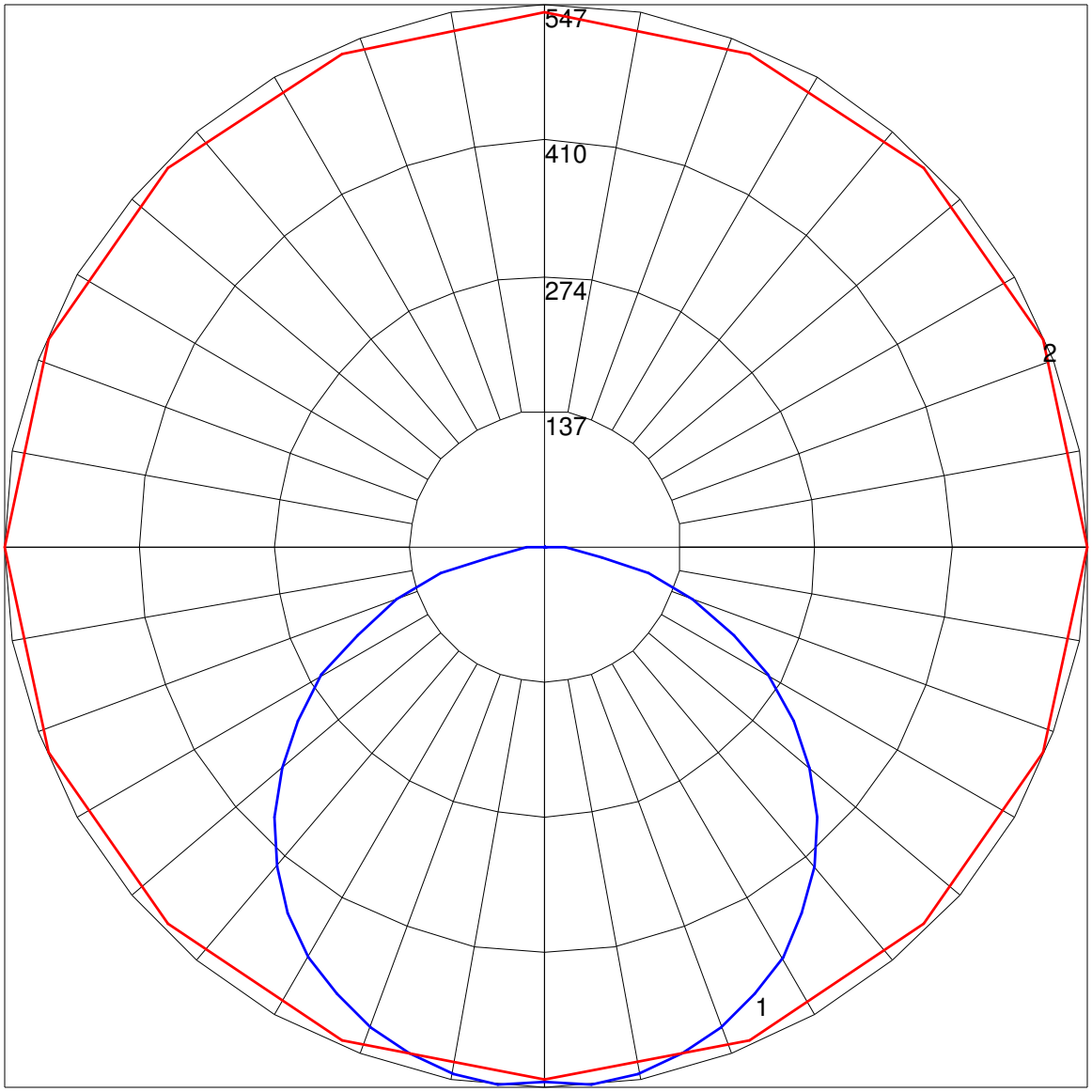
POLAR GRAPH



Maximum Candela = 547.194 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.)

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