H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75-4-L50-835-(L41)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] GEN FROM BALLABS TEST NO. 17874.0
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 44.625 INCH LED STRIP w/WHITE REFLECTOR
[LUMINAIRE] NO ACRYLIC OVER LED BOARDS
[LUMINAIRE] 0-10V DIMMING DRIVER
[LUMCAT] 75-4-L50-835-(L41)-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] SURFACE, SUSPENDED, WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	26.3
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	18626	17828	17580
55	18172	17183	16834
65	16939	15595	15115
75	14291	12612	12096
85	7445	7148	5908

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1393.032	1393.032	1393.032	1393.032	1393.032
5	1402.669	1393.996	1388.214	1384.359	1382.913
10	1387.732	1378.577	1371.831	1367.976	1366.048
15	1364.121	1353.038	1346.293	1340.510	1342.438
20	1327.500	1318.345	1310.154	1304.371	1307.744
25	1280.761	1273.051	1261.969	1257.150	1255.223
30	1228.239	1217.156	1204.628	1200.773	1190.173
35	1161.744	1152.588	1138.133	1134.760	1124.159
40	1084.165	1064.410	1056.700	1051.400	1048.990
45	993.096	969.485	965.148	960.330	956.957
50	892.870	871.187	867.332	865.405	854.322
55	786.381	763.252	759.880	759.880	750.242
60	669.773	649.054	639.417	644.235	629.780
65	540.637	525.218	514.135	523.291	504.016
70	409.574	390.300	384.517	394.154	379.217
75	279.956	261.163	261.163	261.163	255.381
80	148.892	146.001	146.001	143.592	137.809
85	49.631	52.522	55.895	53.004	48.667
90	4.819	4.819	6.746	4.819	4.819
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	512.90	N.A.	12.50
0-30	1096.21	N.A.	26.70
0-40	1809.64	N.A.	44.10
0-60	3236.63	N.A.	78.90
0-80	4031.13	N.A.	98.30
0-90	4100.63	N.A.	100.00
10-90	3968.5	N.A.	96.70
20-40	1296.74	N.A.	31.60
20-50	2043.27	N.A.	49.80
40-70	1941.6	N.A.	47.30
60-80	794.50	N.A.	19.40
70-80	279.89	N.A.	6.80
80-90	69.50	N.A.	1.70
90-110	1.45	N.A.	0.00
90-120	1.45	N.A.	0.00
90-130	1.45	N.A.	0.00
90-150	1.45	N.A.	0.00
90-180	1.45	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4102.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.13
10-20	380.77
20-30	583.31
30-40	713.43
40-50	746.53
50-60	680.46
60-70	514.61
70-80	279.89
80-90	69.50
90-100	1.45
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	22.2	23.8	22.5	24.1	24.4	22.1	23.8	22.5	24.1	24.4
	3H	23.9	25.4	24.3	25.7	26.1	23.9	25.4	24.2	25.7	26.0
	4H	24.5	25.9	24.9	26.3	26.7	24.5	25.9	24.9	26.2	26.6
	6H	24.9	26.2	25.3	26.6	27.0	24.8	26.1	25.2	26.5	26.9
	8H	25.0	26.3	25.5	26.7	27.1	24.9	26.2	25.4	26.6	27.0
	12H	25.1	26.3	25.5	26.7	27.1	25.0	26.2	25.4	26.6	27.0
4H	2H	22.8	24.2	23.2	24.5	24.9	22.7	24.1	23.1	24.5	24.9
	3H	24.7	25.9	25.1	26.3	26.7	24.7	25.9	25.1	26.3	26.7
	4H	25.4	26.5	25.9	26.9	27.4	25.4	26.5	25.8	26.9	27.3
	6H	25.9	26.9	26.4	27.3	27.8	25.9	26.8	26.4	27.3	27.7
	8H	26.1	26.9	26.5	27.4	27.9	26.0	26.9	26.5	27.4	27.8
	12H	26.1	26.9	26.6	27.4	27.9	26.1	26.9	26.6	27.4	27.8
8H	4H	25.7	26.6	26.2	27.0	27.5	25.7	26.5	26.1	27.0	27.4
	6H	26.3	27.0	26.8	27.5	28.0	26.3	27.0	26.8	27.5	28.0
	8H	26.5	27.1	27.0	27.6	28.1	26.5	27.1	27.0	27.6	28.1
	12H	26.6	27.2	27.1	27.7	28.2	26.6	27.2	27.1	27.7	28.2
12H	4H	25.7	26.5	26.2	27.0	27.5	25.7	26.5	26.2	26.9	27.4
	6H	26.4	27.0	26.9	27.5	28.0	26.3	27.0	26.8	27.4	28.0
	8H	26.6	27.1	27.1	27.6	28.2	26.5	27.1	27.0	27.6	28.2

Maximum UGR = 28.2

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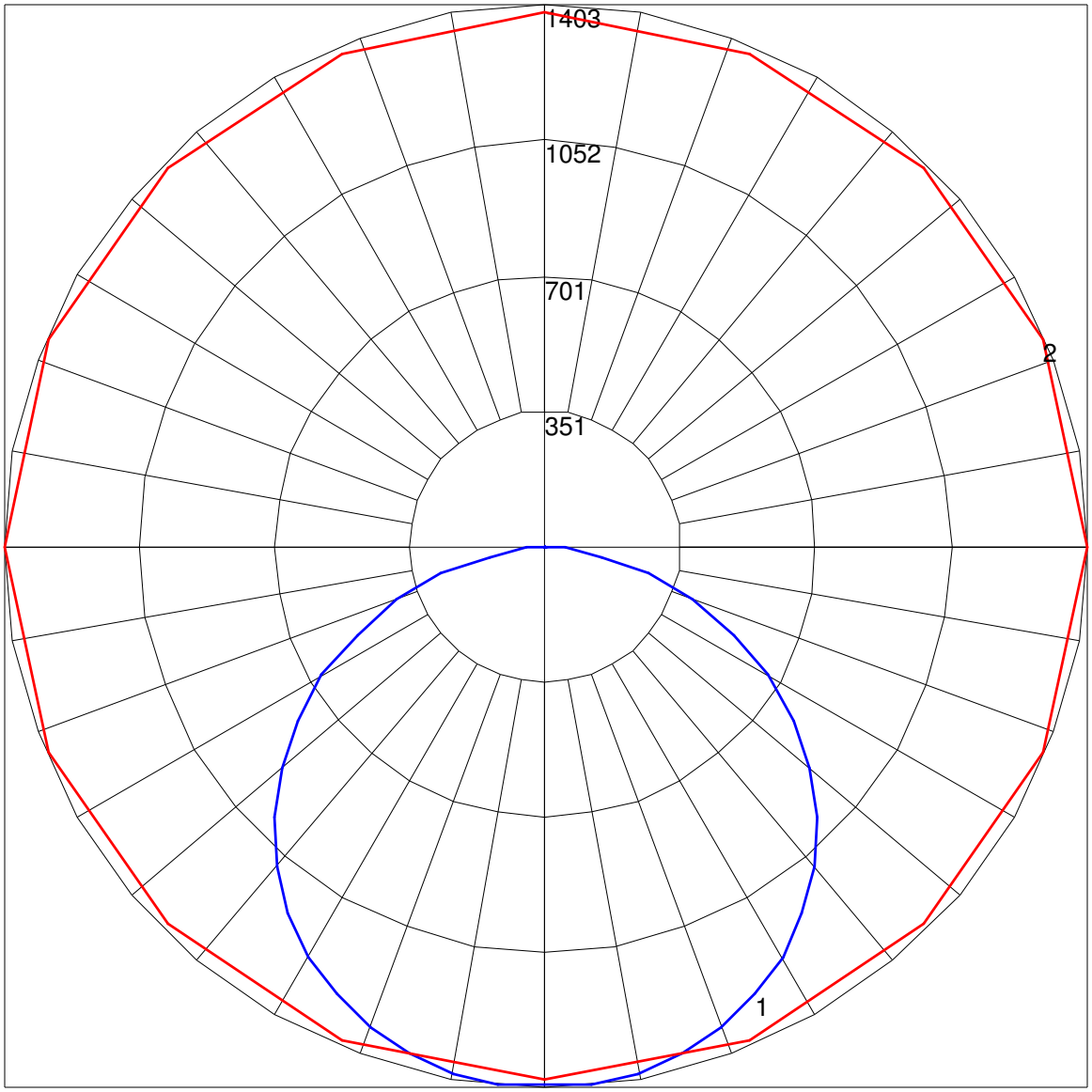
POLAR GRAPH



Maximum Candela = 1402.669 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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