

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-L52-RGB835-DMX-UNV WHITE ONLY\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17875.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 30 NOV, 2023

[MANUFAC] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 4' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-4-L52/RGB835-DIM-UNV WHITE ONLY

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5204
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	44.6
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)	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	23638	22610	22307
55	23043	21798	21355
65	21477	19787	19174
75	18109	16002	15346
85	9499	9041	7464

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1766.935	1766.935	1766.935	1766.935	1766.935
5	1779.846	1768.780	1761.402	1756.484	1754.639
10	1760.172	1749.106	1740.499	1735.580	1733.121
15	1730.662	1716.522	1707.914	1700.537	1702.996
20	1683.937	1672.256	1662.419	1655.042	1659.345
25	1624.916	1615.080	1600.939	1594.791	1592.332
30	1558.518	1544.378	1528.393	1523.474	1510.564
35	1473.676	1461.994	1443.550	1439.862	1426.336
40	1375.308	1350.716	1340.879	1334.116	1330.427
45	1260.340	1230.215	1224.067	1218.534	1214.230
50	1133.076	1105.410	1100.492	1098.033	1083.892
55	997.206	968.310	964.006	964.006	951.710
60	849.654	823.832	811.536	817.069	798.625
65	685.502	666.443	652.303	663.984	639.392
70	519.506	495.529	488.151	500.447	481.388
75	354.740	331.377	331.377	331.377	324.000
80	188.744	185.055	185.055	181.981	174.603
85	63.324	66.398	70.702	67.628	61.480
90	5.533	5.533	8.607	5.533	5.533
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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Zone	Lumens	%Lamp	%Fixt
0-20	650.71	N.A.	12.50
0-30	1390.75	N.A.	26.70
0-40	2295.88	N.A.	44.10
0-60	4106.36	N.A.	78.90
0-80	5114.44	N.A.	98.30
0-90	5202.44	N.A.	100.00
10-90	5034.8	N.A.	96.70
20-40	1645.17	N.A.	31.60
20-50	2592.37	N.A.	49.80
40-70	2463.45	N.A.	47.30
60-80	1008.08	N.A.	19.40
70-80	355.11	N.A.	6.80
80-90	88.00	N.A.	1.70
90-110	1.73	N.A.	0.00
90-120	1.73	N.A.	0.00
90-130	1.73	N.A.	0.00
90-150	1.73	N.A.	0.00
90-180	1.73	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5204.16	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	167.64
10-20	483.07
20-30	740.04
30-40	905.13
40-50	947.20
50-60	863.28
60-70	652.97
70-80	355.11
80-90	88.00
90-100	1.73
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	117	117	117	117	115	115	115	115	109	109	109	105	105	105	101	101	101	99
1	107	102	98	94	104	100	96	93	96	93	90	92	90	87	89	87	85	82
2	97	89	82	77	95	87	81	76	84	79	74	81	76	72	78	74	71	69
3	89	78	70	64	86	77	69	63	74	67	62	71	65	61	68	64	60	58
4	81	69	60	54	79	68	60	53	65	58	53	63	57	52	61	56	51	49
5	74	62	53	46	72	61	52	46	58	51	45	56	50	45	55	49	44	42
6	69	55	47	40	67	55	46	40	53	45	40	51	44	39	49	44	39	37
7	64	50	42	35	62	49	41	35	48	40	35	46	40	35	45	39	34	32
8	59	46	37	32	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	55	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

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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

X=2H	Y=2H	23.1	24.7	23.4	25.0	25.3	23.0	24.7	23.4	25.0	25.3
	3H	24.8	26.3	25.2	26.6	27.0	24.8	26.3	25.1	26.6	26.9
	4H	25.4	26.8	25.8	27.2	27.6	25.4	26.8	25.8	27.1	27.5
	6H	25.8	27.1	26.2	27.5	27.9	25.7	27.0	26.1	27.4	27.8
	8H	25.9	27.2	26.4	27.6	28.0	25.8	27.1	26.3	27.5	27.9
	12H	26.0	27.2	26.4	27.6	28.0	25.9	27.1	26.3	27.5	27.9

### UGR Viewed Endwise

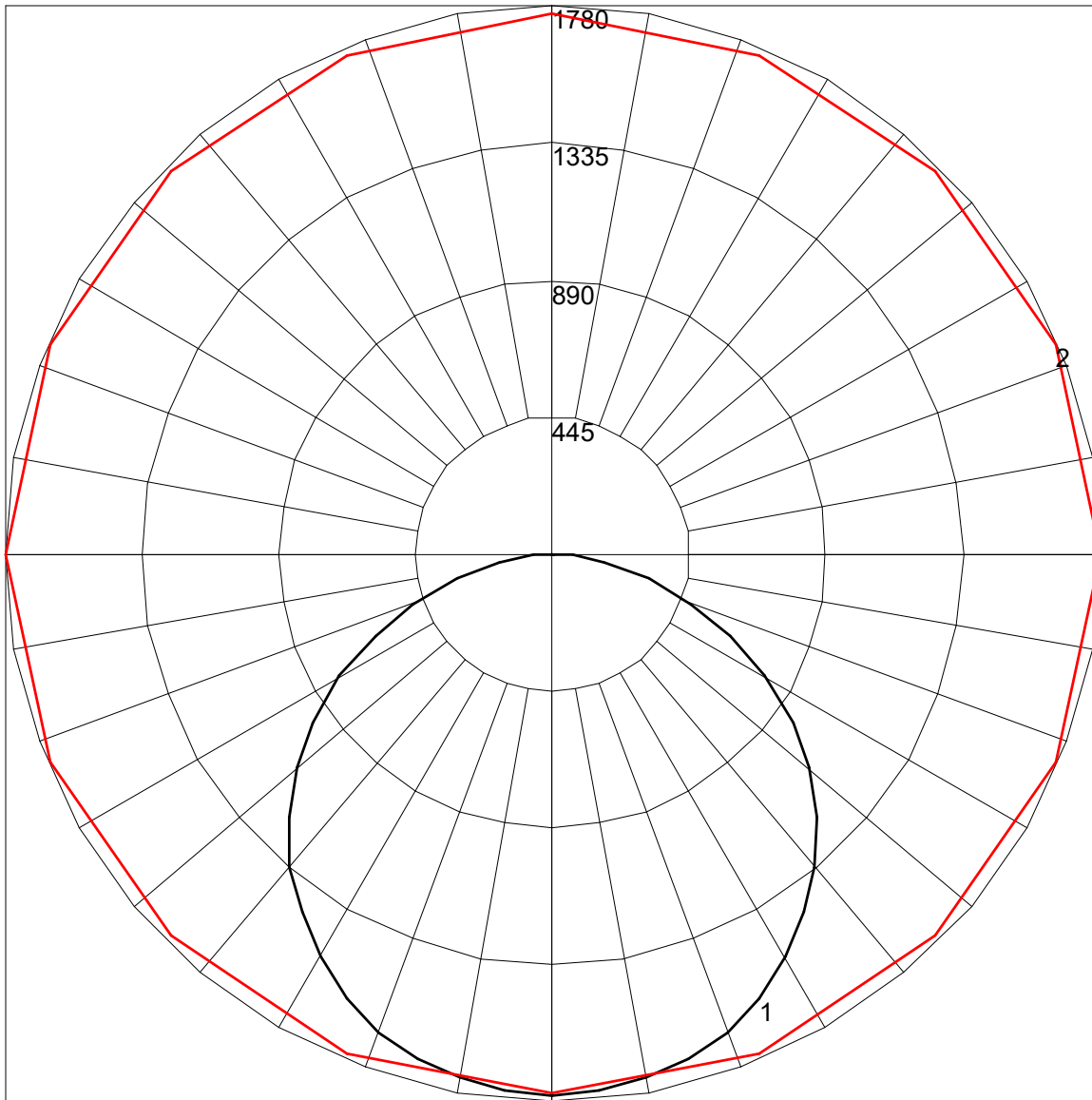
4H	2H	23.7	25.1	24.1	25.4	25.8	23.6	25.0	24.0	25.4	25.8
	3H	25.6	26.8	26.0	27.2	27.6	25.6	26.8	26.0	27.2	27.6
	4H	26.3	27.4	26.8	27.8	28.3	26.3	27.4	26.7	27.8	28.2
	6H	26.8	27.8	27.3	28.2	28.7	26.8	27.7	27.3	28.2	28.6
	8H	27.0	27.8	27.4	28.3	28.8	26.9	27.8	27.4	28.3	28.7
	12H	27.0	27.8	27.5	28.3	28.8	27.0	27.8	27.5	28.3	28.7

8H	4H	26.6	27.5	27.1	27.9	28.4	26.6	27.4	27.0	27.9	28.3
	6H	27.2	27.9	27.7	28.4	28.9	27.2	27.9	27.7	28.4	28.8
	8H	27.4	28.0	27.9	28.5	29.0	27.4	28.0	27.9	28.5	29.0
	12H	27.5	28.1	28.0	28.6	29.1	27.5	28.1	28.0	28.6	29.1

12H	4H	26.6	27.4	27.1	27.9	28.4	26.6	27.4	27.1	27.8	28.3
	6H	27.3	27.9	27.8	28.4	28.9	27.2	27.9	27.7	28.3	28.9
	8H	27.5	28.0	28.0	28.5	29.1	27.4	28.0	27.9	28.5	29.1

Maximum UGR = 29.1

POLAR GRAPH



Maximum Candela = 1779.846 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.)