



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75-4-L53-8TW-DIM-UNV 4000K\_.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] 17-DEC-2019

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

[LUMINAIRE] 4' STRIP w/WHITE REFLECTOR

[LUMCAT] 75-4-L53-8TW-DIM-UNV 4000k

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5430
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	43.24
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	24664	23592	23275
55	24044	22745	22282
65	22410	20646	20007
75	18895	16697	16013
85	9911	9434	7788

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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	1843.671	1843.671	1843.671	1843.671	1843.671
5	1857.142	1845.595	1837.897	1832.765	1830.841
10	1836.614	1825.067	1816.086	1810.954	1808.388
15	1805.822	1791.068	1782.087	1774.389	1776.955
20	1757.068	1744.880	1734.616	1726.918	1731.408
25	1695.484	1685.220	1670.466	1664.051	1661.485
30	1626.202	1611.448	1594.769	1589.637	1576.165
35	1537.675	1525.487	1506.242	1502.393	1488.280
40	1435.035	1409.375	1399.111	1392.055	1388.206
45	1315.075	1283.641	1277.226	1271.453	1266.962
50	1182.284	1153.417	1148.285	1145.719	1130.964
55	1040.513	1010.362	1005.872	1005.872	993.042
60	886.553	859.610	846.780	852.553	833.308
65	715.272	695.386	680.631	692.820	667.160
70	542.067	517.049	509.351	522.181	502.294
75	370.145	345.768	345.768	345.768	338.070
80	196.940	193.091	193.091	189.884	182.186
85	66.074	69.282	73.772	70.565	64.150
90	5.773	5.773	8.981	5.773	5.773
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	678.97	N.A.	12.50
0-30	1451.15	N.A.	26.70
0-40	2395.59	N.A.	44.10
0-60	4284.69	N.A.	78.90
0-80	5336.55	N.A.	98.30
0-90	5428.37	N.A.	100.00
10-90	5253.45	N.A.	96.70
20-40	1716.62	N.A.	31.60
20-50	2704.95	N.A.	49.80
40-70	2570.43	N.A.	47.30
60-80	1051.86	N.A.	19.40
70-80	370.53	N.A.	6.80
80-90	91.82	N.A.	1.70
90-110	1.80	N.A.	0.00
90-120	1.80	N.A.	0.00
90-130	1.80	N.A.	0.00
90-150	1.80	N.A.	0.00
90-180	1.80	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5430.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	174.92
10-20	504.05
20-30	772.18
30-40	944.44
40-50	988.33
50-60	900.78
60-70	681.33
70-80	370.53
80-90	91.82
90-100	1.80
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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	103	103	103	101
1	110	105	101	97	107	103	99	95	99	95	92	95	92	90	91	89	87	85
2	100	92	85	79	97	90	83	78	86	81	76	83	78	74	80	76	73	70
3	91	80	72	65	89	79	71	65	76	69	64	73	67	62	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	58	53	63	57	53	50
5	77	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	43
6	71	57	48	41	69	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	36	64	51	42	36	49	42	36	48	41	36	46	40	35	33
8	61	47	38	32	59	46	38	32	45	37	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

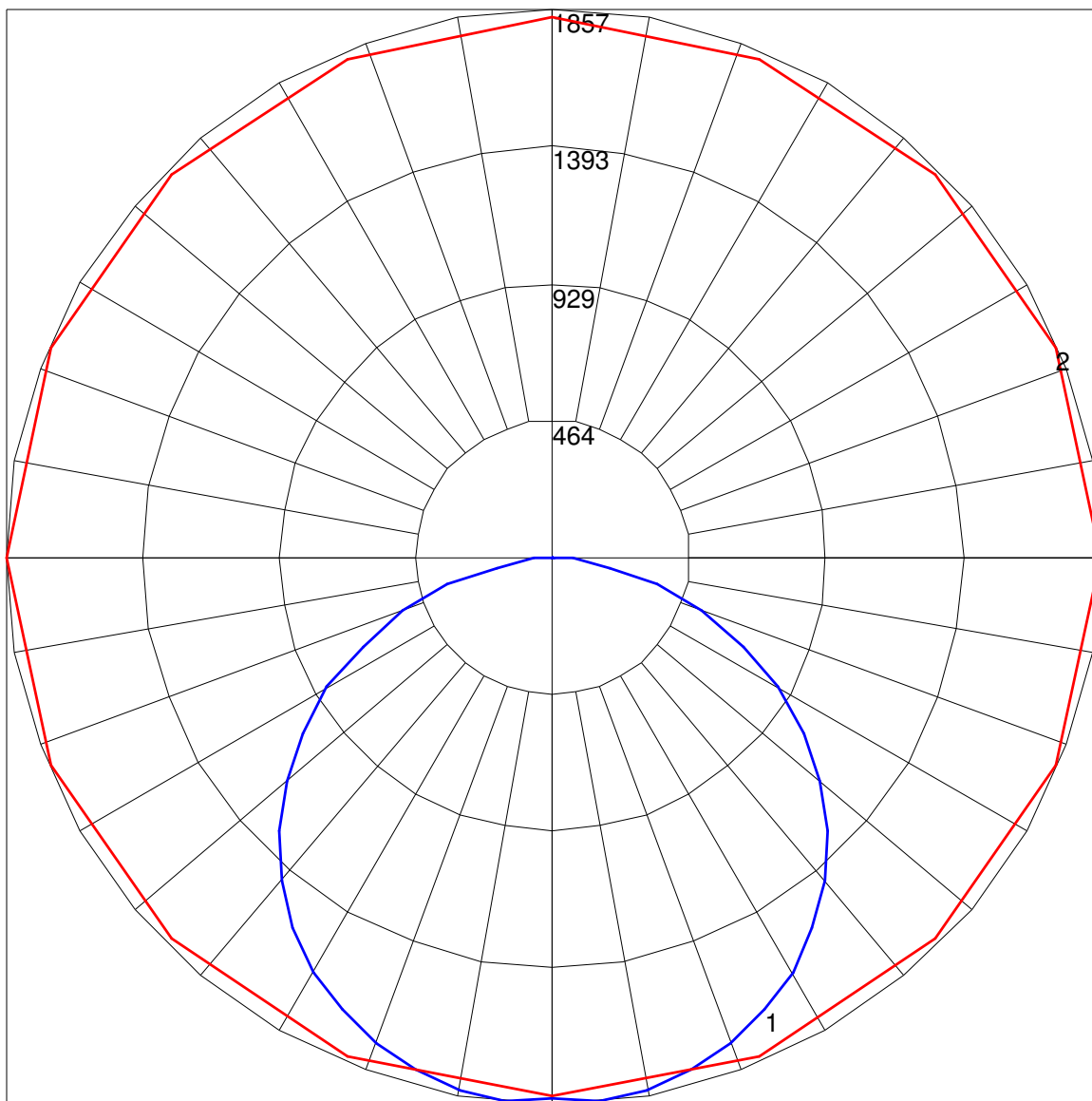
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**UGR TABLE - CORRECTED**

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	23.1	24.8	23.5	25.1	25.4	23.0	24.7	23.4	25.0	25.3
	3H	24.9	26.4	25.3	26.7	27.1	24.8	26.3	25.1	26.6	26.9
	4H	25.6	27.0	26.0	27.3	27.7	25.4	26.8	25.8	27.1	27.5
	6H	26.0	27.3	26.4	27.6	28.0	25.7	27.0	26.1	27.4	27.8
	8H	26.1	27.3	26.5	27.7	28.1	25.8	27.1	26.3	27.5	27.9
	12H	26.1	27.3	26.6	27.7	28.1	25.9	27.1	26.3	27.5	27.9
4H	2H	23.7	25.1	24.1	25.5	25.8	23.6	25.0	24.0	25.4	25.8
	3H	25.7	26.9	26.1	27.3	27.7	25.6	26.8	26.0	27.2	27.6
	4H	26.5	27.5	26.9	27.9	28.4	26.3	27.4	26.7	27.8	28.2
	6H	27.0	27.9	27.4	28.3	28.8	26.8	27.7	27.3	28.2	28.6
	8H	27.1	28.0	27.6	28.4	28.9	26.9	27.8	27.4	28.3	28.7
	12H	27.2	28.0	27.7	28.5	28.9	27.0	27.8	27.5	28.3	28.7
8H	4H	26.7	27.6	27.2	28.0	28.5	26.6	27.4	27.0	27.9	28.3
	6H	27.3	28.0	27.8	28.5	29.0	27.2	27.9	27.7	28.4	28.9
	8H	27.5	28.2	28.0	28.7	29.2	27.4	28.0	27.9	28.5	29.0
	12H	27.6	28.2	28.2	28.7	29.3	27.5	28.1	28.0	28.6	29.1
12H	4H	26.7	27.5	27.2	28.0	28.4	26.6	27.4	27.1	27.8	28.3
	6H	27.4	28.0	27.9	28.5	29.0	27.2	27.9	27.7	28.3	28.9
	8H	27.6	28.2	28.1	28.7	29.2	27.4	28.0	27.9	28.5	29.1

Maximum UGR = 29.3

POLAR GRAPH



Maximum Candela = 1857.142 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.)