



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-835-(L40)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19745.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 10-30-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44.625 INCH SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-835-(L40)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear

[\_SEARCH\_MOUNTING] Surface, Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4168
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	27.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15010	12112	11451
55	12725	10153	10261
65	9993	8676	9321
75	6881	7092	8270
85	3074	6016	7249

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-L50-835-(L40)-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1406.310	1406.310	1406.310	1406.310	1406.310
5	1418.406	1400.580	1399.944	1396.760	1380.208
10	1394.214	1378.298	1379.572	1375.752	1360.473
15	1355.380	1340.101	1343.920	1340.101	1327.368
20	1290.444	1278.984	1290.444	1284.714	1271.345
25	1210.229	1205.772	1215.958	1215.322	1195.586
30	1121.737	1123.647	1135.107	1135.107	1110.915
35	1013.511	1028.790	1034.519	1036.429	1011.601
40	895.735	918.653	913.560	923.746	911.014
45	780.505	800.877	799.604	818.066	814.883
50	662.729	681.191	695.834	727.028	733.395
55	541.770	564.688	597.156	643.630	664.639
60	427.814	455.825	511.212	568.508	595.883
65	318.314	362.878	432.270	497.843	525.854
70	218.363	276.933	351.418	422.721	455.825
75	138.785	194.808	278.843	350.145	383.250
80	75.759	129.872	219.000	283.936	314.494
85	24.192	79.578	166.160	224.093	252.741
90	0.000	51.567	126.689	180.802	200.538
95	0.000	47.110	118.413	165.523	176.982
100	0.000	44.564	110.137	150.881	161.067
105	0.000	40.744	103.134	139.421	149.607
110	0.000	38.198	96.131	130.509	140.695
115	0.000	35.015	87.855	122.232	131.782
120	0.000	29.921	78.942	110.773	122.232
125	0.000	24.828	71.302	101.224	111.410
130	0.000	20.372	61.753	90.401	97.404
135	0.000	18.462	49.657	78.305	85.308
140	0.000	15.279	38.834	65.573	72.576
145	0.000	12.096	29.921	50.930	57.933
150	0.000	8.913	22.919	38.834	44.564
155	0.000	7.003	18.462	28.012	32.468
160	0.000	0.000	13.369	20.372	22.919
165	0.000	0.000	8.913	14.642	15.916
170	0.000	0.000	0.000	8.913	9.549
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-L50-835-(L40)-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	510.52	N.A.	12.20
0-30	1067.89	N.A.	25.60
0-40	1709.48	N.A.	41.00
0-60	2872.52	N.A.	68.90
0-80	3587.17	N.A.	86.10
0-90	3757.82	N.A.	90.20
10-90	3624.94	N.A.	87.00
20-40	1198.95	N.A.	28.80
20-50	1821.25	N.A.	43.70
40-70	1588.15	N.A.	38.10
60-80	714.65	N.A.	17.10
70-80	289.55	N.A.	6.90
80-90	170.65	N.A.	4.10
90-110	209.98	N.A.	5.00
90-120	286.84	N.A.	6.90
90-130	343.47	N.A.	8.20
90-150	399.67	N.A.	9.60
90-180	410.20	N.A.	9.80
110-180	200.23	N.A.	4.80
0-180	4168.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	132.88
10-20	377.64
20-30	557.37
30-40	641.59
40-50	622.29
50-60	540.75
60-70	425.11
70-80	289.55
80-90	170.65
90-100	114.89
100-110	95.09
110-120	76.87
120-130	56.63
130-140	36.70
140-150	19.50
150-160	8.16
160-170	2.25
170-180	0.12

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-L50-835-(L40)-DIM-UNV\_.IES**

**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	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	24	33	28	24	22

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75S-4-L50-835-(L40)-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

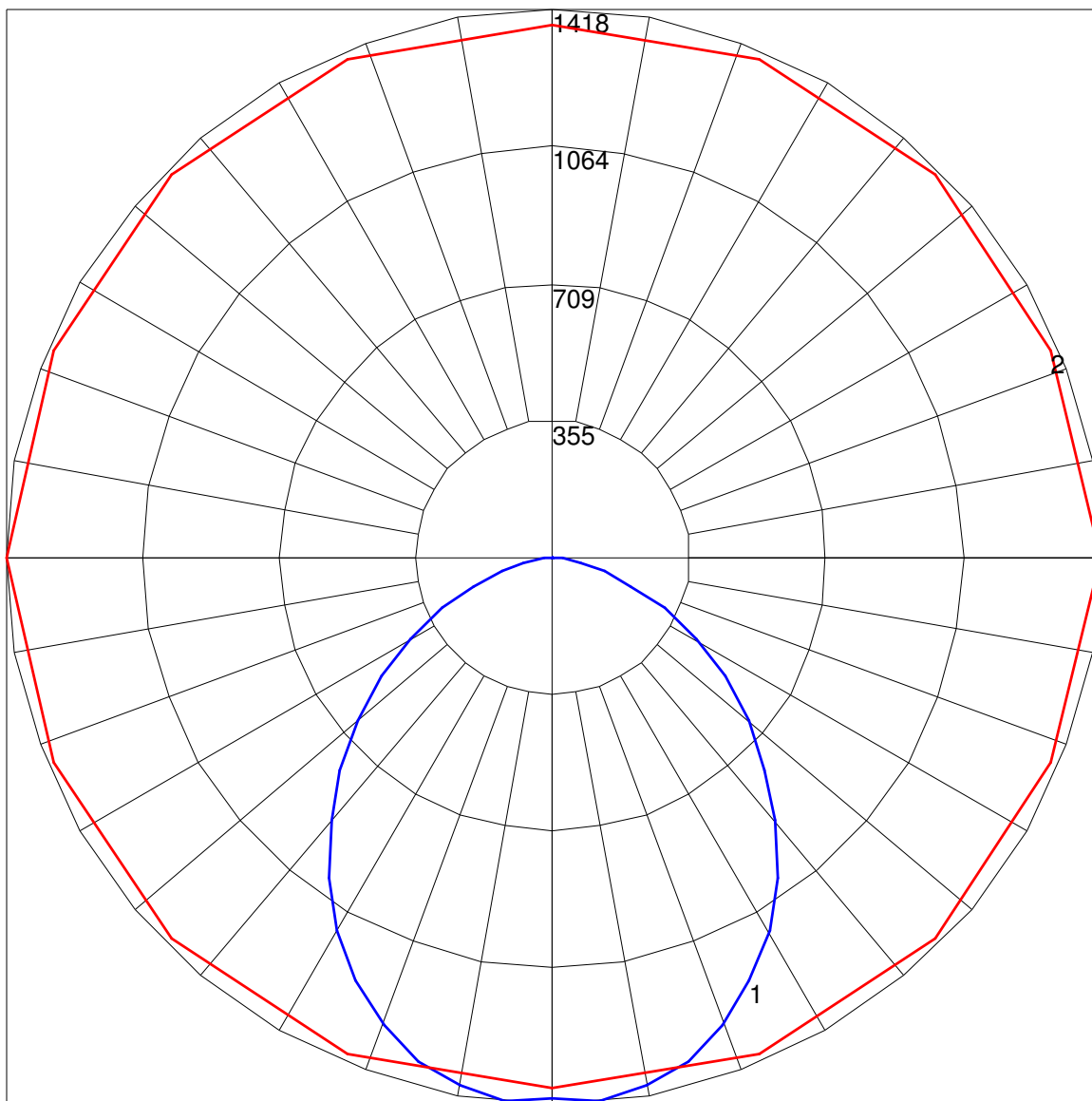
Reflectances

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	18.1	19.5	18.6	20.0	20.6	20.3	21.8	20.9	22.3	22.8
	3H	19.3	20.5	19.8	21.1	21.6	22.7	24.0	23.3	24.5	25.1
	4H	19.6	20.8	20.1	21.3	21.9	23.9	25.1	24.4	25.6	26.2
	6H	19.7	20.9	20.3	21.4	22.0	25.0	26.1	25.6	26.7	27.3
	8H	19.7	20.8	20.3	21.4	22.0	25.6	26.7	26.2	27.2	27.9
	12H	19.7	20.8	20.3	21.3	22.0	26.2	27.2	26.8	27.8	28.5
4H	2H	18.9	20.1	19.4	20.6	21.3	20.7	21.9	21.2	22.4	23.1
	3H	20.3	21.3	20.9	21.9	22.6	23.3	24.3	23.9	24.9	25.5
	4H	20.8	21.7	21.3	22.3	22.9	24.6	25.5	25.2	26.1	26.8
	6H	21.0	21.8	21.6	22.5	23.1	25.9	26.7	26.5	27.3	28.0
	8H	21.1	21.9	21.7	22.5	23.1	26.6	27.4	27.2	28.0	28.7
	12H	21.1	21.8	21.7	22.4	23.1	27.3	28.0	28.0	28.7	29.4
8H	4H	21.4	22.2	22.0	22.8	23.5	24.7	25.5	25.3	26.1	26.8
	6H	21.8	22.5	22.5	23.1	23.8	26.2	26.9	26.9	27.5	28.2
	8H	22.0	22.5	22.6	23.2	23.9	27.0	27.6	27.7	28.3	29.0
	12H	22.0	22.5	22.7	23.2	24.0	27.9	28.4	28.6	29.1	29.9
12H	4H	21.6	22.3	22.2	22.9	23.6	24.7	25.4	25.3	26.1	26.8
	6H	22.1	22.7	22.8	23.3	24.1	26.2	26.8	26.9	27.4	28.2
	8H	22.3	22.8	23.0	23.5	24.3	27.1	27.6	27.7	28.3	29.0

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 1418.406 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.)