

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-840-(L37)-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

[ISSUE DATE] 2/21/2025

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] SURFACE MOUNT STRIP LUMINAIRE w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-840-(L37)-DIM-UNV

[_SEARCH_SOURCE TYPE] 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	3851
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	24.21
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	13868	11191	10580
55	11758	9381	9481
65	9233	8016	8612
75	6358	6552	7641
85	2841	5558	6698

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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	1299.352	1299.352	1299.352	1299.352	1299.352
5	1310.528	1294.058	1293.470	1290.529	1275.236
10	1288.176	1273.471	1274.647	1271.118	1257.001
15	1252.296	1238.179	1241.708	1238.179	1226.414
20	1192.298	1181.711	1192.298	1187.004	1174.652
25	1118.184	1114.067	1123.478	1122.890	1104.655
30	1036.423	1038.188	1048.775	1048.775	1026.424
35	936.428	950.545	955.839	957.603	934.663
40	827.609	848.785	844.079	853.490	841.726
45	721.143	739.966	738.790	755.848	752.907
50	612.325	629.383	642.912	671.734	677.616
55	500.565	521.741	551.739	594.679	614.089
60	395.276	421.157	472.331	525.270	550.563
65	294.104	335.279	399.393	459.979	485.860
70	201.755	255.871	324.691	390.570	421.157
75	128.229	179.992	257.635	323.515	354.101
80	69.997	119.994	202.344	262.341	290.575
85	22.352	73.526	153.522	207.049	233.519
90	0.000	47.645	117.053	167.051	185.286
95	0.000	43.527	109.407	152.934	163.522
100	0.000	41.175	101.760	139.405	148.817
105	0.000	37.645	95.290	128.818	138.229
110	0.000	35.292	88.819	120.583	129.994
115	0.000	32.351	81.173	112.936	121.759
120	0.000	27.646	72.938	102.348	112.936
125	0.000	22.940	65.879	93.525	102.936
130	0.000	18.823	57.056	83.526	89.996
135	0.000	17.058	45.880	72.350	78.820
140	0.000	14.117	35.881	60.585	67.056
145	0.000	11.176	27.646	47.057	53.527
150	0.000	8.235	21.175	35.881	41.175
155	0.000	6.470	17.058	25.881	29.999
160	0.000	0.000	12.352	18.823	21.175
165	0.000	0.000	8.235	13.529	14.705
170	0.000	0.000	0.000	8.235	8.823
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	471.69	N.A.	12.20
0-30	986.67	N.A.	25.60
0-40	1579.46	N.A.	41.00
0-60	2654.05	N.A.	68.90
0-80	3314.35	N.A.	86.10
0-90	3472.02	N.A.	90.20
10-90	3349.25	N.A.	87.00
20-40	1107.77	N.A.	28.80
20-50	1682.73	N.A.	43.70
40-70	1467.36	N.A.	38.10
60-80	660.30	N.A.	17.10
70-80	267.53	N.A.	6.90
80-90	157.67	N.A.	4.10
90-110	194.01	N.A.	5.00
90-120	265.03	N.A.	6.90
90-130	317.35	N.A.	8.20
90-150	369.27	N.A.	9.60
90-180	379.01	N.A.	9.80
110-180	185.00	N.A.	4.80
0-180	3851.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.77
10-20	348.92
20-30	514.97
30-40	592.79
40-50	574.96
50-60	499.63
60-70	392.77
70-80	267.53
80-90	157.67
90-100	106.15
100-110	87.85
110-120	71.02
120-130	52.32
130-140	33.91
140-150	18.02
150-160	7.54
160-170	2.08
170-180	0.11

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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	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

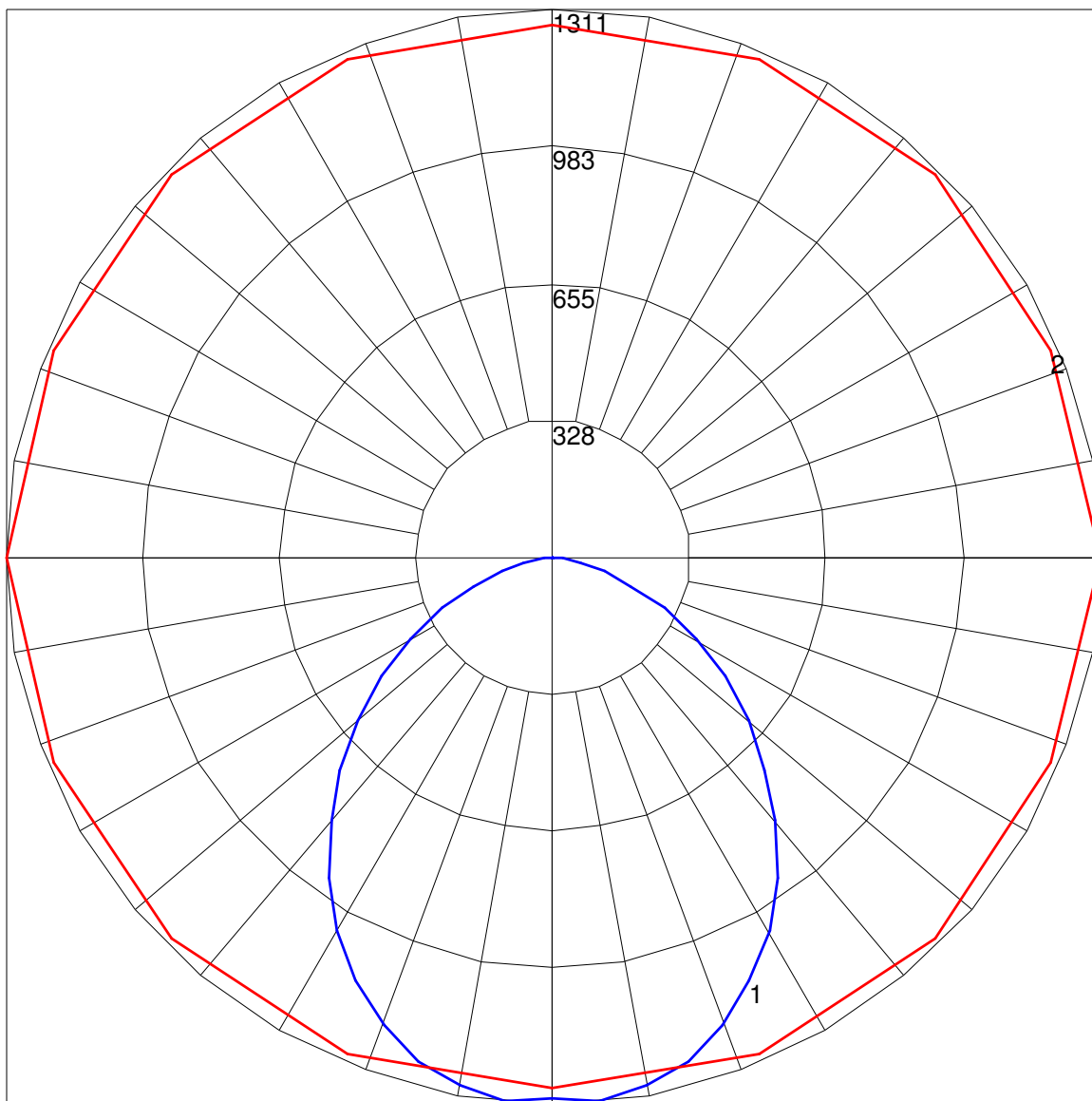
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UGR TABLE - CORRECTED

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	17.8	19.2	18.3	19.7	20.3	20.0	21.5	20.6	22.0	22.5
	3H	19.0	20.2	19.5	20.8	21.3	22.4	23.7	23.0	24.2	24.8
	4H	19.3	20.5	19.8	21.0	21.6	23.6	24.8	24.1	25.3	25.9
	6H	19.4	20.6	20.0	21.1	21.7	24.7	25.8	25.3	26.4	27.0
	8H	19.4	20.5	20.0	21.1	21.7	25.3	26.4	25.9	26.9	27.6
	12H	19.4	20.5	20.0	21.0	21.7	25.9	26.9	26.5	27.5	28.2
4H	2H	18.6	19.8	19.1	20.4	21.0	20.4	21.6	20.9	22.1	22.8
	3H	20.0	21.0	20.6	21.6	22.3	23.0	24.0	23.6	24.6	25.2
	4H	20.5	21.4	21.0	22.0	22.6	24.3	25.2	24.9	25.8	26.5
	6H	20.7	21.5	21.3	22.2	22.8	25.6	26.4	26.2	27.0	27.7
	8H	20.8	21.6	21.4	22.2	22.8	26.3	27.1	26.9	27.7	28.4
	12H	20.8	21.5	21.4	22.1	22.8	27.0	27.7	27.7	28.4	29.1
8H	4H	21.1	21.9	21.7	22.5	23.2	24.4	25.2	25.0	25.8	26.5
	6H	21.5	22.2	22.2	22.8	23.5	25.9	26.6	26.6	27.2	27.9
	8H	21.7	22.2	22.3	22.9	23.6	26.7	27.3	27.4	28.0	28.7
	12H	21.7	22.2	22.4	22.9	23.7	27.6	28.1	28.3	28.8	29.6
12H	4H	21.3	22.0	21.9	22.6	23.3	24.4	25.1	25.0	25.8	26.5
	6H	21.8	22.4	22.5	23.0	23.8	25.9	26.5	26.6	27.1	27.9
	8H	22.0	22.5	22.7	23.2	24.0	26.8	27.3	27.4	28.0	28.7

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 1310.528 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.)