

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-840-(L38)-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] 06-27-2023

[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-L50-840-(L38)-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K 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	3656
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
Total Luminaire Watts	24.4
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	13166	10624	10045
55	11162	8906	9001
65	8765	7610	8176
75	6036	6221	7254
85	2697	5277	6359

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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	1233.558	1233.558	1233.558	1233.558	1233.558
5	1244.168	1228.532	1227.974	1225.182	1210.663
10	1222.948	1208.987	1210.104	1206.754	1193.351
15	1188.884	1175.482	1178.832	1175.482	1164.313
20	1131.925	1121.873	1131.925	1126.899	1115.172
25	1061.563	1057.654	1066.589	1066.031	1048.720
30	983.943	985.618	995.669	995.669	974.449
35	889.011	902.413	907.439	909.114	887.335
40	785.702	805.805	801.338	810.273	799.104
45	684.627	702.497	701.380	717.574	714.782
50	581.319	597.513	610.357	637.720	643.304
55	475.219	495.322	523.801	564.566	582.994
60	375.261	399.831	448.414	498.672	522.685
65	279.212	318.302	379.170	436.687	461.258
70	191.539	242.914	308.250	370.793	399.831
75	121.736	170.878	244.590	307.133	336.171
80	66.452	113.918	192.098	249.057	275.861
85	21.220	69.803	145.749	196.565	221.694
90	0.000	45.232	111.126	158.592	175.903
95	0.000	41.323	103.867	145.190	155.242
100	0.000	39.090	96.607	132.346	141.281
105	0.000	35.739	90.465	122.295	131.230
110	0.000	33.505	84.322	114.477	123.412
115	0.000	30.713	77.062	107.217	115.594
120	0.000	26.246	69.245	97.166	107.217
125	0.000	21.779	62.543	88.789	97.724
130	0.000	17.870	54.167	79.296	85.439
135	0.000	16.194	43.557	68.686	74.829
140	0.000	13.402	34.064	57.518	63.660
145	0.000	10.610	26.246	44.674	50.817
150	0.000	7.818	20.103	34.064	39.090
155	0.000	6.143	16.194	24.571	28.480
160	0.000	0.000	11.727	17.870	20.103
165	0.000	0.000	7.818	12.844	13.961
170	0.000	0.000	0.000	7.818	8.376
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	447.81	N.A.	12.20
0-30	936.71	N.A.	25.60
0-40	1499.48	N.A.	41.00
0-60	2519.66	N.A.	68.90
0-80	3146.52	N.A.	86.10
0-90	3296.21	N.A.	90.20
10-90	3179.65	N.A.	87.00
20-40	1051.67	N.A.	28.80
20-50	1597.52	N.A.	43.70
40-70	1393.06	N.A.	38.10
60-80	626.87	N.A.	17.10
70-80	253.98	N.A.	6.90
80-90	149.68	N.A.	4.10
90-110	184.18	N.A.	5.00
90-120	251.61	N.A.	6.90
90-130	301.28	N.A.	8.20
90-150	350.58	N.A.	9.60
90-180	359.81	N.A.	9.80
110-180	175.63	N.A.	4.80
0-180	3656.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.55
10-20	331.25
20-30	488.90
30-40	562.78
40-50	545.85
50-60	474.33
60-70	372.89
70-80	253.98
80-90	149.68
90-100	100.78
100-110	83.41
110-120	67.43
120-130	49.67
130-140	32.19
140-150	17.11
150-160	7.16
160-170	1.97
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

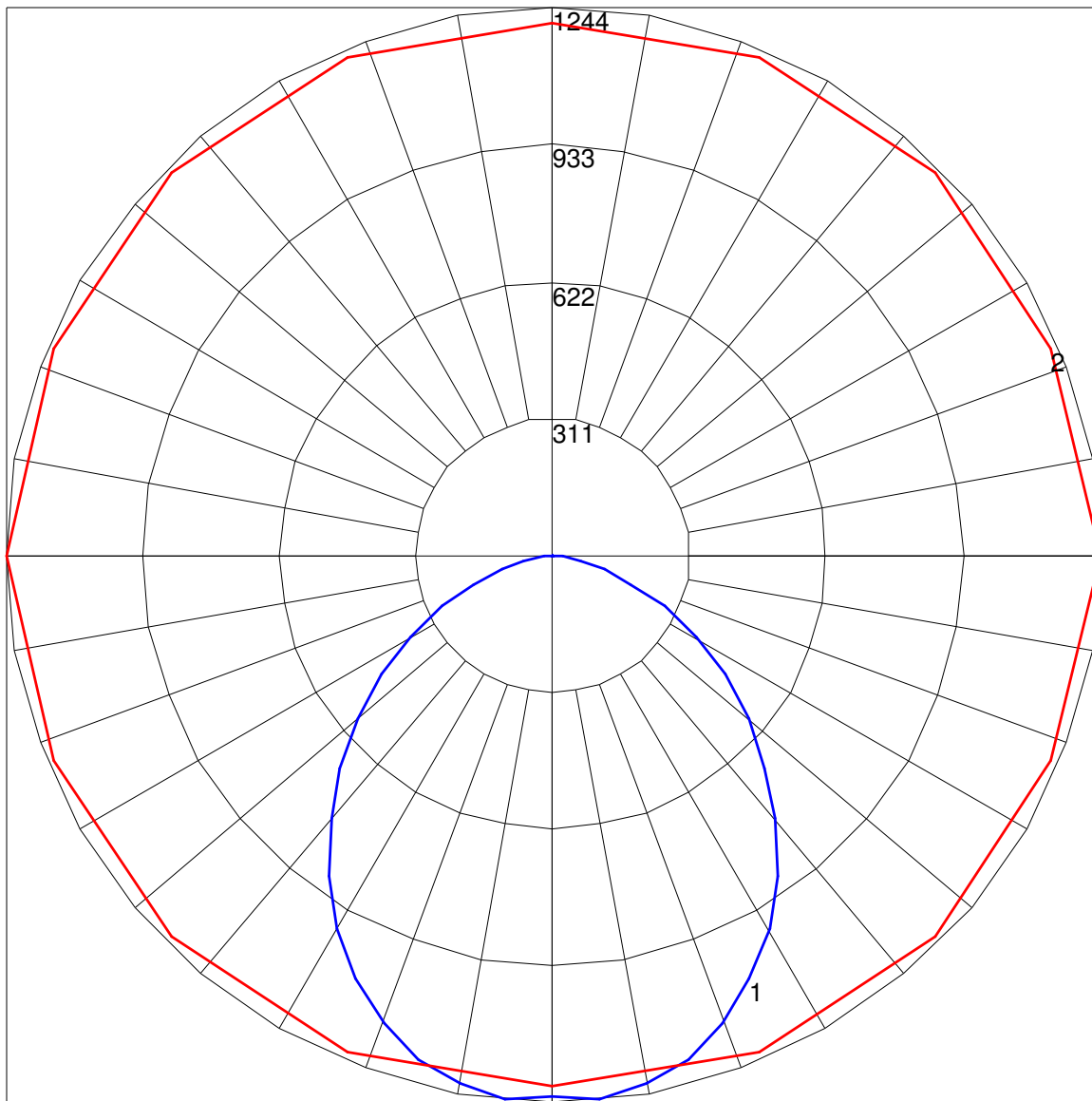
Reflectances

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	17.6	19.0	18.1	19.5	20.1	19.8	21.3	20.4	21.8	22.3
	3H	18.8	20.0	19.3	20.6	21.1	22.2	23.5	22.8	24.0	24.6
	4H	19.1	20.3	19.6	20.8	21.4	23.4	24.6	23.9	25.1	25.7
	6H	19.2	20.4	19.8	20.9	21.5	24.5	25.6	25.1	26.2	26.8
	8H	19.2	20.3	19.8	20.9	21.5	25.1	26.2	25.7	26.7	27.4
	12H	19.2	20.3	19.8	20.8	21.5	25.7	26.7	26.3	27.3	28.0
4H	2H	18.4	19.6	18.9	20.1	20.8	20.2	21.4	20.7	21.9	22.6
	3H	19.8	20.8	20.4	21.4	22.1	22.8	23.8	23.4	24.4	25.0
	4H	20.3	21.2	20.8	21.8	22.4	24.1	25.0	24.7	25.6	26.3
	6H	20.5	21.3	21.1	22.0	22.6	25.4	26.2	26.0	26.8	27.5
	8H	20.6	21.3	21.2	22.0	22.6	26.1	26.9	26.7	27.5	28.2
	12H	20.6	21.3	21.2	21.9	22.6	26.8	27.5	27.4	28.2	28.9
8H	4H	20.9	21.7	21.5	22.3	23.0	24.2	25.0	24.8	25.6	26.3
	6H	21.3	22.0	22.0	22.6	23.3	25.7	26.4	26.4	27.0	27.7
	8H	21.5	22.0	22.1	22.7	23.4	26.5	27.1	27.2	27.8	28.5
	12H	21.5	22.0	22.2	22.7	23.5	27.4	27.9	28.1	28.6	29.4
12H	4H	21.1	21.8	21.7	22.4	23.1	24.2	24.9	24.8	25.6	26.3
	6H	21.6	22.2	22.3	22.8	23.6	25.7	26.3	26.4	26.9	27.7
	8H	21.8	22.3	22.5	23.0	23.8	26.6	27.1	27.2	27.8	28.5

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 1244.168 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.)