



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-840-(L42)-EM10WLP-DIM-UNV_EMER MODE ONLY.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] 09-26-2024

[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-(L42)-EM10WLP-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	1270
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	10
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	4574	3690	3489
55	3877	3094	3127
65	3045	2644	2840
75	2097	2161	2520
85	937	1833	2209

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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	428.506	428.506	428.506	428.506	428.506
5	432.192	426.760	426.566	425.597	420.553
10	424.821	419.971	420.359	419.195	414.540
15	412.988	408.332	409.496	408.332	404.452
20	393.202	389.710	393.202	391.456	387.382
25	368.760	367.402	370.506	370.312	364.298
30	341.796	342.378	345.870	345.870	338.499
35	308.819	313.475	315.221	315.803	308.237
40	272.933	279.916	278.364	281.468	277.588
45	237.822	244.029	243.641	249.267	248.297
50	201.935	207.561	212.022	221.527	223.467
55	165.079	172.062	181.955	196.116	202.517
60	130.356	138.891	155.768	173.226	181.567
65	96.991	110.570	131.714	151.694	160.229
70	66.536	84.382	107.078	128.804	138.891
75	42.288	59.358	84.964	106.690	116.777
80	23.084	39.572	66.730	86.516	95.827
85	7.371	24.248	50.629	68.282	77.011
90	0.000	15.713	38.602	55.091	61.104
95	0.000	14.355	36.081	50.435	53.927
100	0.000	13.579	33.559	45.974	49.077
105	0.000	12.415	31.425	42.482	45.586
110	0.000	11.639	29.291	39.766	42.870
115	0.000	10.669	26.770	37.245	40.154
120	0.000	9.117	24.054	33.753	37.245
125	0.000	7.565	21.726	30.843	33.947
130	0.000	6.207	18.816	27.545	29.679
135	0.000	5.625	15.131	23.860	25.994
140	0.000	4.656	11.833	19.980	22.114
145	0.000	3.686	9.117	15.519	17.652
150	0.000	2.716	6.983	11.833	13.579
155	0.000	2.134	5.625	8.535	9.893
160	0.000	0.000	4.074	6.207	6.983
165	0.000	0.000	2.716	4.462	4.850
170	0.000	0.000	0.000	2.716	2.910
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-L50-840-(L42)-EM10WLP-DIM-UNV_EMER MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	155.56	N.A.	12.20
0-30	325.39	N.A.	25.60
0-40	520.88	N.A.	41.00
0-60	875.26	N.A.	68.90
0-80	1093.02	N.A.	86.10
0-90	1145.02	N.A.	90.20
10-90	1104.53	N.A.	87.00
20-40	365.32	N.A.	28.80
20-50	554.94	N.A.	43.70
40-70	483.91	N.A.	38.10
60-80	217.76	N.A.	17.10
70-80	88.23	N.A.	6.90
80-90	52.00	N.A.	4.10
90-110	63.98	N.A.	5.00
90-120	87.40	N.A.	6.90
90-130	104.66	N.A.	8.20
90-150	121.78	N.A.	9.60
90-180	124.99	N.A.	9.80
110-180	61.01	N.A.	4.80
0-180	1270.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.49
10-20	115.07
20-30	169.83
30-40	195.49
40-50	189.61
50-60	164.77
60-70	129.53
70-80	88.23
80-90	52.00
90-100	35.01
100-110	28.97
110-120	23.42
120-130	17.25
130-140	11.18
140-150	5.94
150-160	2.49
160-170	0.69
170-180	0.04

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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

X=2H	Y=2H	13.9	15.3	14.4	15.8	16.4	16.1	17.6	16.7	18.1	18.6
	3H	15.1	16.3	15.6	16.9	17.5	18.5	19.8	19.1	20.3	20.9
	4H	15.4	16.6	15.9	17.1	17.7	19.7	20.9	20.2	21.4	22.0
	6H	15.5	16.7	16.1	17.2	17.8	20.8	21.9	21.4	22.5	23.1
	8H	15.5	16.6	16.1	17.2	17.8	21.4	22.5	22.0	23.0	23.7
	12H	15.5	16.6	16.1	17.1	17.8	22.0	23.0	22.6	23.6	24.3

UGR Viewed Endwise

4H	2H	14.7	15.9	15.2	16.5	17.1	16.5	17.7	17.0	18.3	18.9
	3H	16.1	17.1	16.7	17.7	18.4	19.1	20.1	19.7	20.7	21.3
	4H	16.6	17.5	17.1	18.1	18.7	20.4	21.3	21.0	21.9	22.6
	6H	16.8	17.6	17.4	18.3	18.9	21.7	22.5	22.3	23.1	23.8
	8H	16.9	17.7	17.5	18.3	18.9	22.4	23.2	23.0	23.8	24.5
	12H	16.9	17.6	17.5	18.2	18.9	23.1	23.8	23.8	24.5	25.2

8H	4H	17.2	18.0	17.8	18.6	19.3	20.5	21.3	21.1	21.9	22.6
	6H	17.6	18.3	18.3	18.9	19.6	22.0	22.7	22.7	23.3	24.0
	8H	17.8	18.3	18.4	19.0	19.7	22.8	23.4	23.5	24.1	24.8
	12H	17.8	18.3	18.5	19.0	19.8	23.7	24.2	24.4	24.9	25.7

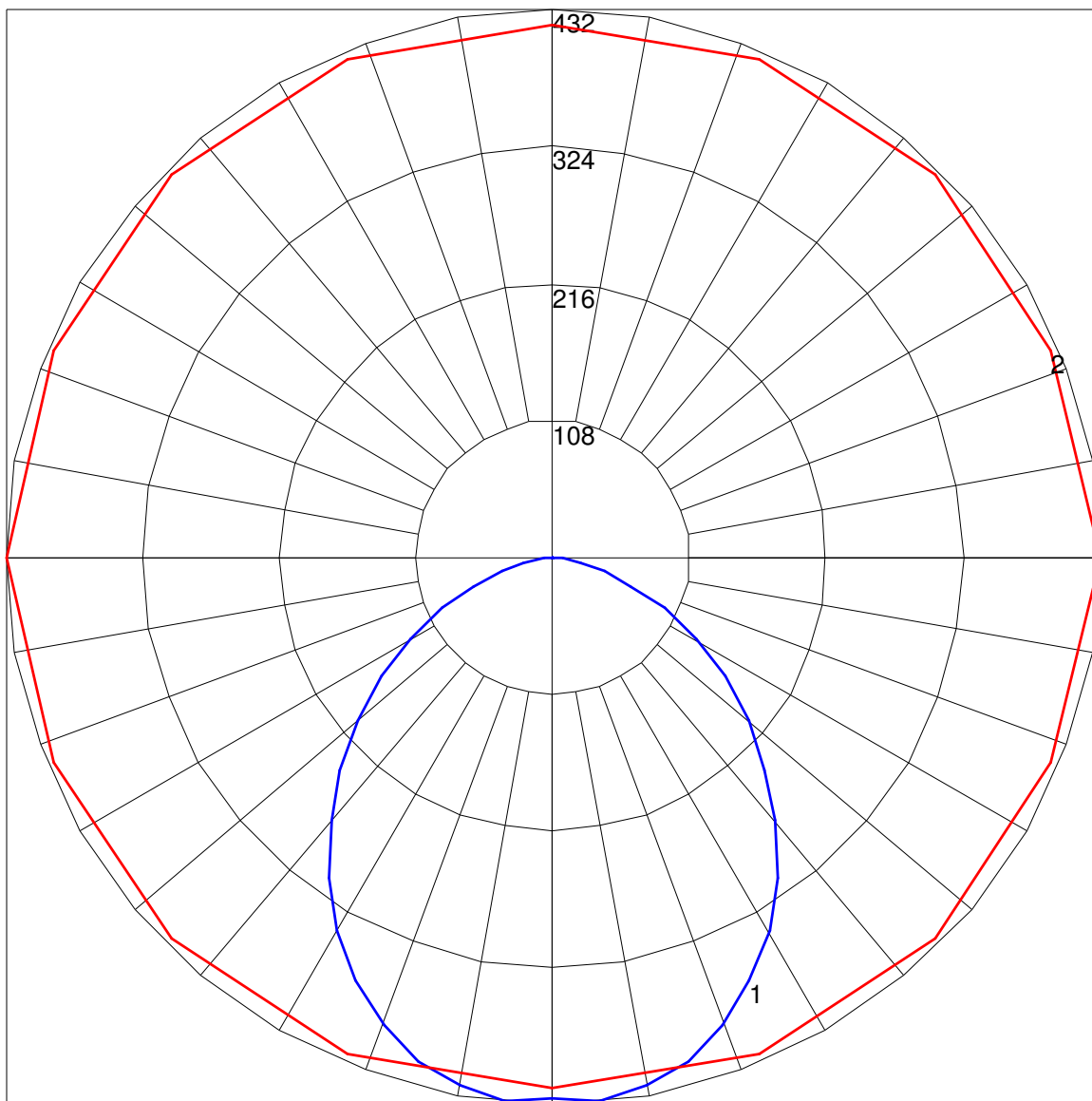
12H	4H	17.4	18.1	18.0	18.7	19.4	20.5	21.2	21.2	21.9	22.6
	6H	17.9	18.5	18.6	19.1	19.9	22.0	22.6	22.7	23.2	24.0
	8H	18.1	18.6	18.8	19.3	20.1	22.9	23.4	23.5	24.1	24.8

Maximum UGR = 25.7

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POLAR GRAPH



Maximum Candela = 432.192 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.)