



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L50-830-EM10WLP-DIM-UNV_(EMER MODE).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] 02-11-2022

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L50-830-EM10WLP-DIM-UNV

[LAMPCAT] HLM 80 CRI 3000K 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	1460
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	5258	4243	4011
55	4458	3557	3594
65	3500	3039	3265
75	2410	2484	2897
85	1077	2107	2539

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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	492.613	492.613	492.613	492.613	492.613
5	496.850	490.606	490.383	489.268	483.470
10	488.376	482.801	483.247	481.909	476.557
15	474.773	469.421	470.759	469.421	464.961
20	452.027	448.013	452.027	450.020	445.337
25	423.929	422.367	425.936	425.713	418.799
30	392.931	393.600	397.614	397.614	389.140
35	355.021	360.373	362.380	363.049	354.352
40	313.765	321.793	320.009	323.577	319.117
45	273.402	280.538	280.092	286.559	285.444
50	232.146	238.613	243.742	254.669	256.899
55	189.775	197.804	209.177	225.456	232.815
60	149.858	159.670	179.071	199.142	208.731
65	111.501	127.112	151.419	174.388	184.200
70	76.490	97.006	123.098	148.074	159.670
75	48.615	68.239	97.675	122.652	134.248
80	26.537	45.493	76.713	99.459	110.163
85	8.474	27.875	58.204	78.497	88.532
90	0.000	18.063	44.378	63.333	70.246
95	0.000	16.502	41.479	57.981	61.995
100	0.000	15.610	38.580	52.852	56.420
105	0.000	14.272	36.126	48.838	52.406
110	0.000	13.380	33.673	45.716	49.284
115	0.000	12.265	30.774	42.817	46.162
120	0.000	10.481	27.652	38.803	42.817
125	0.000	8.697	24.976	35.457	39.026
130	0.000	7.136	21.631	31.666	34.119
135	0.000	6.467	17.394	27.429	29.882
140	0.000	5.352	13.603	22.969	25.422
145	0.000	4.237	10.481	17.840	20.293
150	0.000	3.122	8.028	13.603	15.610
155	0.000	2.453	6.467	9.812	11.373
160	0.000	0.000	4.683	7.136	8.028
165	0.000	0.000	3.122	5.129	5.575
170	0.000	0.000	0.000	3.122	3.345
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-L50-830-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	178.83	N.A.	12.20
0-30	374.07	N.A.	25.60
0-40	598.81	N.A.	41.00
0-60	1006.21	N.A.	68.90
0-80	1256.54	N.A.	86.10
0-90	1316.32	N.A.	90.20
10-90	1269.77	N.A.	87.00
20-40	419.98	N.A.	28.80
20-50	637.96	N.A.	43.70
40-70	556.31	N.A.	38.10
60-80	250.33	N.A.	17.10
70-80	101.43	N.A.	6.90
80-90	59.78	N.A.	4.10
90-110	73.55	N.A.	5.00
90-120	100.48	N.A.	6.90
90-130	120.31	N.A.	8.20
90-150	140.00	N.A.	9.60
90-180	143.69	N.A.	9.80
110-180	70.14	N.A.	4.80
0-180	1460.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.55
10-20	132.28
20-30	195.24
30-40	224.74
40-50	217.98
50-60	189.42
60-70	148.91
70-80	101.43
80-90	59.78
90-100	40.24
100-110	33.31
110-120	26.93
120-130	19.84
130-140	12.86
140-150	6.83
150-160	2.86
160-170	0.79
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	14.4	15.8	14.9	16.3	16.9	16.6	18.1	17.2	18.6	19.1
	3H	15.6	16.8	16.1	17.4	17.9	19.0	20.3	19.6	20.8	21.4
	4H	15.9	17.1	16.4	17.6	18.2	20.2	21.4	20.7	21.9	22.5
	6H	16.0	17.2	16.6	17.7	18.3	21.3	22.4	21.9	23.0	23.6
	8H	16.0	17.1	16.6	17.7	18.3	21.9	23.0	22.5	23.5	24.2
	12H	16.0	17.1	16.6	17.6	18.3	22.5	23.5	23.1	24.1	24.8

UGR Viewed Endwise

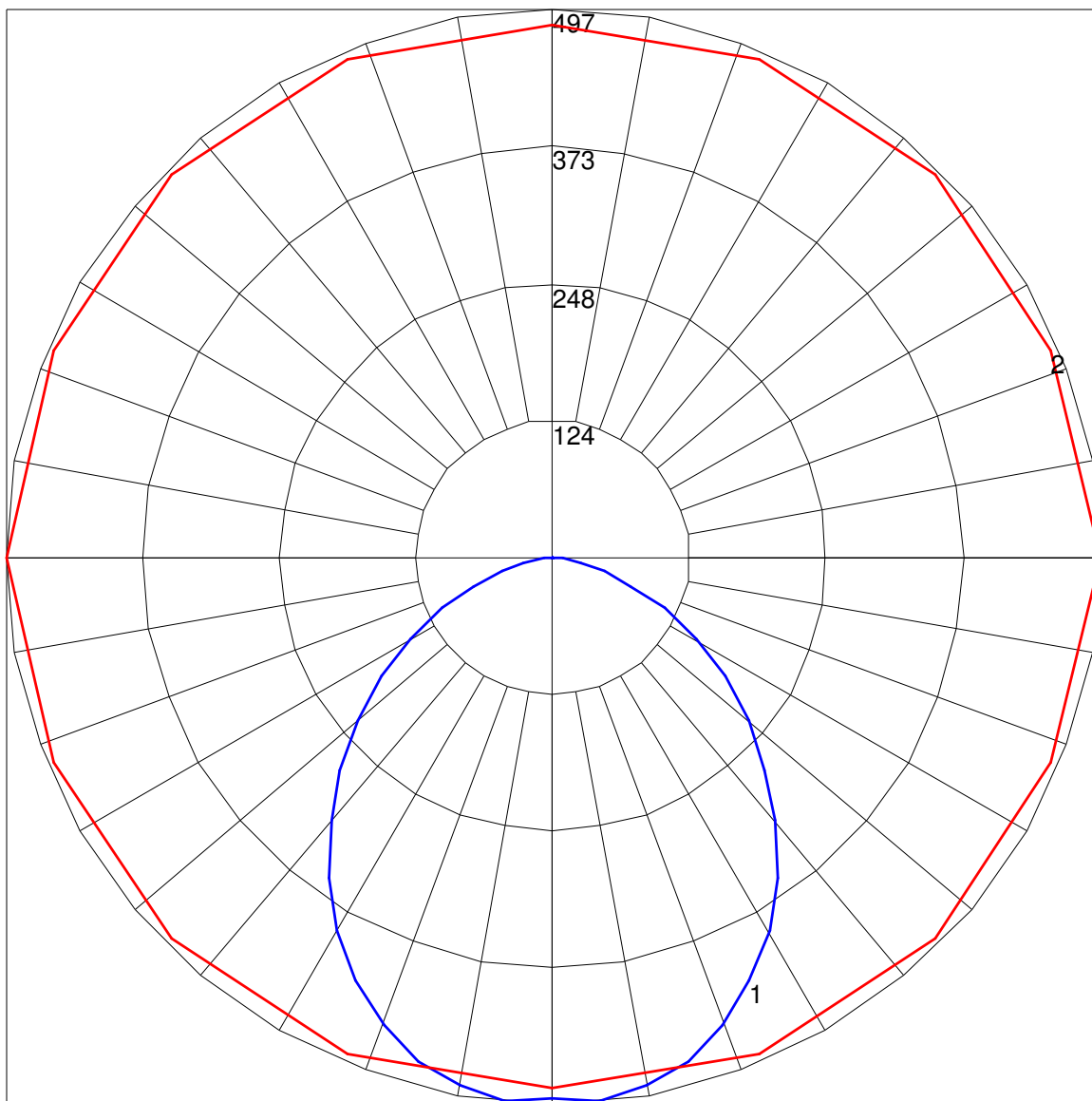
4H	2H	15.2	16.4	15.7	17.0	17.6	17.0	18.2	17.5	18.8	19.4
	3H	16.6	17.6	17.2	18.2	18.9	19.6	20.6	20.2	21.2	21.8
	4H	17.1	18.0	17.6	18.6	19.2	20.9	21.8	21.5	22.4	23.1
	6H	17.3	18.1	17.9	18.8	19.4	22.2	23.0	22.8	23.6	24.3
	8H	17.4	18.2	18.0	18.8	19.4	22.9	23.7	23.5	24.3	25.0
	12H	17.4	18.1	18.0	18.7	19.4	23.6	24.3	24.3	25.0	25.7

8H	4H	17.7	18.5	18.3	19.1	19.8	21.0	21.8	21.6	22.4	23.1
	6H	18.1	18.8	18.8	19.4	20.1	22.5	23.2	23.2	23.8	24.5
	8H	18.3	18.8	18.9	19.5	20.2	23.3	23.9	24.0	24.6	25.3
	12H	18.3	18.8	19.0	19.5	20.3	24.2	24.7	24.9	25.4	26.2

12H	4H	17.9	18.6	18.5	19.2	19.9	21.0	21.7	21.6	22.4	23.1
	6H	18.4	19.0	19.1	19.6	20.4	22.5	23.1	23.2	23.7	24.5
	8H	18.6	19.1	19.3	19.8	20.6	23.4	23.9	24.0	24.6	25.3

Maximum UGR = 26.2

POLAR GRAPH



Maximum Candela = 496.85 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.)