



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-835-(L40)-EM10WLP-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 06-08-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4'SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-835-(L40)-EM10WLP-DIM-UNV(EMER MODE)

[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	1605
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5613	4746	4737
55	4632	4061	4170
65	3815	3411	3513
75	2578	2803	2879
85	1513	2408	2361

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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	514.061	514.061	514.061	514.061	514.061
5	519.705	512.098	512.344	511.117	505.964
10	511.117	504.737	505.964	505.228	500.566
15	496.149	491.487	494.922	496.394	491.487
20	473.574	472.347	478.236	480.690	477.746
25	447.074	448.791	457.134	462.778	460.569
30	416.647	419.101	433.333	441.921	441.430
35	379.596	384.012	404.624	416.647	418.365
40	340.090	343.280	369.290	387.448	391.619
45	293.469	301.566	331.502	355.549	361.438
50	245.130	258.135	294.696	320.951	328.312
55	198.754	215.685	256.908	284.390	294.941
60	159.985	175.689	220.592	248.074	259.116
65	122.933	140.109	186.731	211.759	221.329
70	86.127	109.192	154.586	176.425	185.749
75	53.001	82.446	124.896	145.508	153.605
80	29.445	56.927	99.622	118.762	123.915
85	12.514	39.260	79.502	95.942	99.377
90	1.718	26.991	61.589	76.066	80.728
95	0.245	18.403	49.320	60.362	65.270
100	0.000	12.023	38.279	49.320	53.246
105	0.000	8.588	29.690	40.242	43.431
110	0.000	5.889	22.820	32.880	35.579
115	0.000	4.908	18.649	27.482	29.445
120	0.000	3.681	14.232	22.575	24.538
125	0.000	2.208	10.551	17.912	20.121
130	0.000	1.472	7.607	13.986	15.949
135	0.000	0.736	5.644	11.042	12.514
140	0.000	0.736	3.926	8.588	9.815
145	0.000	0.000	2.454	5.398	6.871
150	0.000	0.000	1.718	3.926	4.908
155	0.000	0.000	1.227	1.963	3.190
160	0.000	0.000	0.491	1.472	1.718
165	0.000	0.000	0.000	0.491	0.736
170	0.000	0.000	0.000	0.000	0.000
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 : 75R-4-L50-835-(L40)-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	187.98	N.A.	11.70
0-30	397.95	N.A.	24.80
0-40	648.51	N.A.	40.40
0-60	1127.4	N.A.	70.20
0-80	1425.47	N.A.	88.80
0-90	1500.38	N.A.	93.50
10-90	1451.71	N.A.	90.50
20-40	460.54	N.A.	28.70
20-50	714.42	N.A.	44.50
40-70	655.44	N.A.	40.80
60-80	298.07	N.A.	18.60
70-80	121.52	N.A.	7.60
80-90	74.92	N.A.	4.70
90-110	71.49	N.A.	4.50
90-120	87.88	N.A.	5.50
90-130	97.19	N.A.	6.10
90-150	103.83	N.A.	6.50
90-180	104.52	N.A.	6.50
110-180	33.03	N.A.	2.10
0-180	1604.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.67
10-20	139.31
20-30	209.97
30-40	250.56
40-50	253.88
50-60	225.00
60-70	176.55
70-80	121.52
80-90	74.92
90-100	44.60
100-110	26.89
110-120	16.39
120-130	9.30
130-140	4.70
140-150	1.94
150-160	0.61
160-170	0.09
170-180	0.00

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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	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	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	15.9	14.8	16.3	16.8	17.8	19.2	18.2	19.7	20.2
	3H	15.6	16.9	16.0	17.4	17.9	20.0	21.3	20.4	21.8	22.3
	4H	15.9	17.2	16.4	17.7	18.2	21.0	22.3	21.5	22.8	23.3
	6H	16.1	17.3	16.6	17.8	18.3	22.0	23.2	22.5	23.7	24.3
	8H	16.1	17.2	16.6	17.8	18.3	22.6	23.7	23.1	24.2	24.8
	12H	16.1	17.2	16.6	17.7	18.3	23.1	24.2	23.7	24.7	25.3

UGR Viewed Endwise

4H	2H	15.4	16.7	15.9	17.2	17.7	18.1	19.4	18.6	19.8	20.4
	3H	16.9	18.0	17.4	18.5	19.0	20.5	21.6	21.0	22.1	22.7
	4H	17.3	18.3	17.9	18.9	19.5	21.7	22.7	22.2	23.2	23.8
	6H	17.6	18.5	18.2	19.0	19.7	22.9	23.8	23.5	24.4	25.0
	8H	17.7	18.5	18.2	19.1	19.7	23.5	24.4	24.1	24.9	25.5
	12H	17.7	18.4	18.3	19.0	19.7	24.2	25.0	24.8	25.6	26.2

8H	4H	18.1	18.9	18.7	19.5	20.1	21.8	22.7	22.4	23.2	23.9
	6H	18.6	19.3	19.2	19.9	20.5	23.2	23.9	23.8	24.5	25.1
	8H	18.7	19.3	19.3	20.0	20.6	24.0	24.6	24.6	25.2	25.9
	12H	18.8	19.4	19.4	20.0	20.7	24.8	25.4	25.4	26.0	26.7

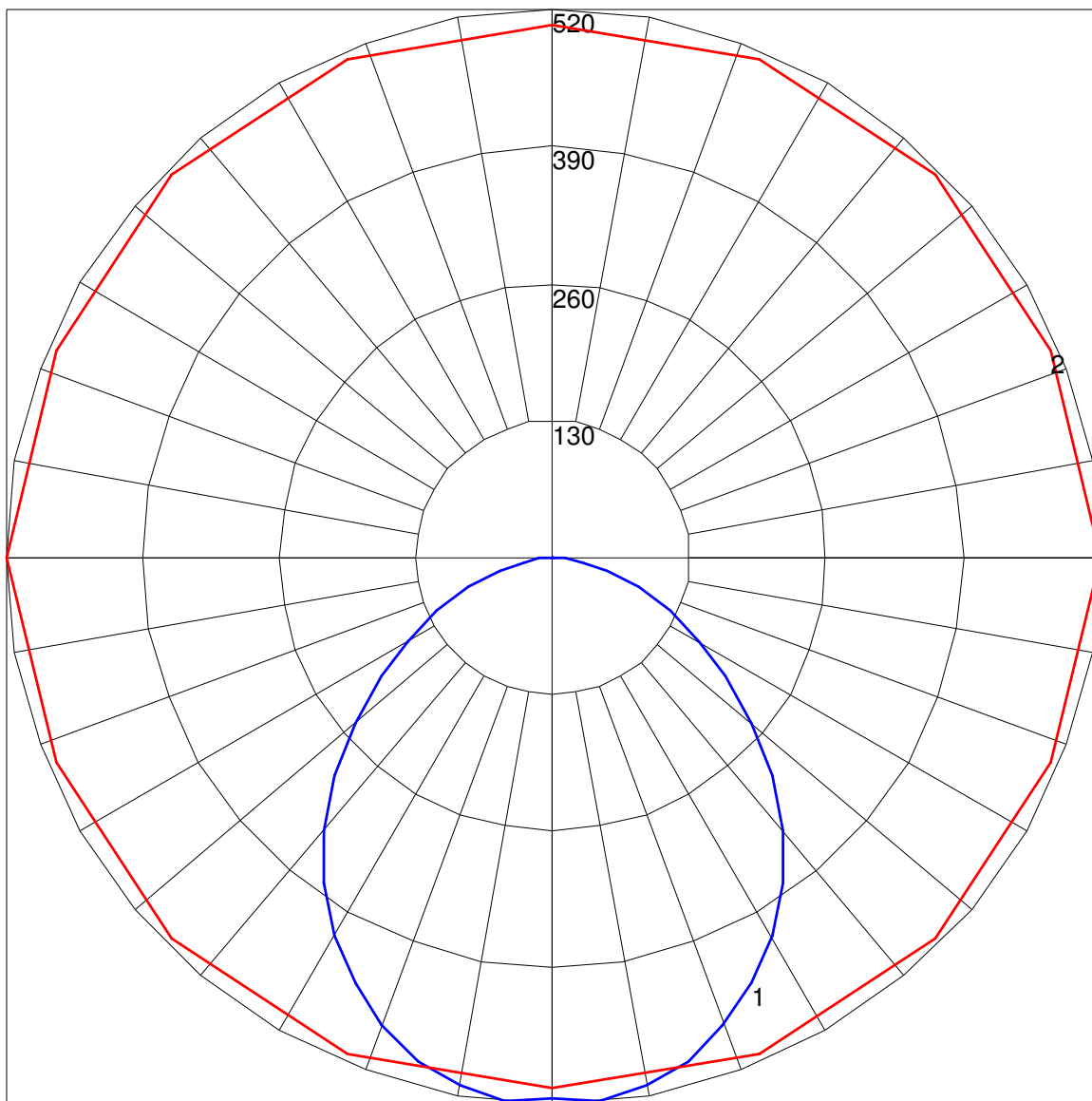
12H	4H	18.3	19.0	18.9	19.6	20.3	21.8	22.6	22.4	23.2	23.8
	6H	18.9	19.5	19.5	20.1	20.8	23.3	23.9	23.9	24.5	25.1
	8H	19.1	19.7	19.7	20.3	21.0	24.0	24.6	24.7	25.2	25.9

Maximum UGR = 26.7

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POLAR GRAPH



Maximum Candela = 519.705 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.)