



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-835-(L37)-EM-10WLP-DIM-UNV_EM MODE ONLY.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] 06-12-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO. 64836

[LUMINAIRE] 4' LED STRIP LUMINAIRE

[MORE] WITH FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-835-(L37)-EM10WLP-DIM1-UNV

[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	1400
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
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	4896	4140	4132
55	4041	3543	3638
65	3328	2976	3065
75	2249	2445	2511
85	1319	2100	2059

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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	448.402	448.402	448.402	448.402	448.402
5	453.325	446.690	446.904	445.834	441.339
10	445.834	440.269	441.339	440.697	436.631
15	432.778	428.711	431.708	432.992	428.711
20	413.087	412.017	417.153	419.294	416.725
25	389.971	391.469	398.746	403.669	401.743
30	363.431	365.571	377.985	385.476	385.048
35	331.112	334.964	352.943	363.431	364.929
40	296.652	299.434	322.122	337.961	341.599
45	255.985	263.049	289.161	310.136	315.273
50	213.821	225.164	257.056	279.957	286.378
55	173.368	188.136	224.094	248.066	257.270
60	139.551	153.249	192.417	216.389	226.021
65	107.231	122.214	162.880	184.712	193.059
70	75.126	95.245	134.842	153.891	162.024
75	46.231	71.916	108.944	126.923	133.986
80	25.684	49.656	86.898	103.593	108.087
85	10.916	34.246	69.347	83.688	86.684
90	1.498	23.544	53.723	66.351	70.417
95	0.214	16.053	43.021	52.653	56.933
100	0.000	10.488	33.389	43.021	46.446
105	0.000	7.491	25.898	35.102	37.884
110	0.000	5.137	19.905	28.681	31.035
115	0.000	4.281	16.267	23.972	25.684
120	0.000	3.211	12.414	19.691	21.403
125	0.000	1.926	9.203	15.625	17.551
130	0.000	1.284	6.635	12.200	13.912
135	0.000	0.642	4.923	9.632	10.916
140	0.000	0.642	3.425	7.491	8.561
145	0.000	0.000	2.140	4.709	5.993
150	0.000	0.000	1.498	3.425	4.281
155	0.000	0.000	1.070	1.712	2.782
160	0.000	0.000	0.428	1.284	1.498
165	0.000	0.000	0.000	0.428	0.642
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-(L37)-EM-10WLP-DIM-UNV_EM MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	163.97	N.A.	11.70
0-30	347.12	N.A.	24.80
0-40	565.68	N.A.	40.40
0-60	983.40	N.A.	70.20
0-80	1243.4	N.A.	88.80
0-90	1308.74	N.A.	93.50
10-90	1266.29	N.A.	90.50
20-40	401.71	N.A.	28.70
20-50	623.17	N.A.	44.50
40-70	571.72	N.A.	40.80
60-80	260.00	N.A.	18.60
70-80	105.99	N.A.	7.60
80-90	65.35	N.A.	4.70
90-110	62.36	N.A.	4.50
90-120	76.66	N.A.	5.50
90-130	84.77	N.A.	6.10
90-150	90.57	N.A.	6.50
90-180	91.17	N.A.	6.50
110-180	28.81	N.A.	2.10
0-180	1399.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.45
10-20	121.52
20-30	183.15
30-40	218.56
40-50	221.45
50-60	196.26
60-70	154.00
70-80	105.99
80-90	65.35
90-100	38.91
100-110	23.45
110-120	14.30
120-130	8.12
130-140	4.10
140-150	1.69
150-160	0.53
160-170	0.08
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	14.0	15.5	14.4	15.9	16.4	17.4	18.9	17.8	19.3	19.8
	3H	15.2	16.5	15.6	17.0	17.5	19.6	20.9	20.0	21.4	21.9
	4H	15.5	16.8	16.0	17.3	17.8	20.6	21.9	21.1	22.4	22.9
	6H	15.7	16.9	16.2	17.4	17.9	21.6	22.8	22.2	23.3	23.9
	8H	15.7	16.8	16.2	17.4	17.9	22.2	23.3	22.7	23.8	24.4
	12H	15.7	16.8	16.2	17.3	17.9	22.7	23.8	23.3	24.3	24.9

UGR Viewed Endwise

4H	2H	15.0	16.3	15.5	16.8	17.3	17.7	19.0	18.2	19.5	20.0
	3H	16.5	17.6	17.0	18.1	18.6	20.1	21.2	20.6	21.7	22.3
	4H	16.9	17.9	17.5	18.5	19.1	21.3	22.3	21.8	22.8	23.4
	6H	17.2	18.1	17.8	18.6	19.3	22.5	23.4	23.1	24.0	24.6
	8H	17.3	18.1	17.8	18.7	19.3	23.1	24.0	23.7	24.5	25.2
	12H	17.3	18.0	17.9	18.6	19.3	23.8	24.6	24.4	25.2	25.8

8H	4H	17.7	18.5	18.3	19.1	19.7	21.5	22.3	22.0	22.8	23.5
	6H	18.2	18.9	18.8	19.5	20.1	22.8	23.5	23.4	24.1	24.7
	8H	18.3	18.9	18.9	19.6	20.2	23.6	24.2	24.2	24.8	25.5
	12H	18.4	19.0	19.0	19.6	20.3	24.4	25.0	25.0	25.6	26.3

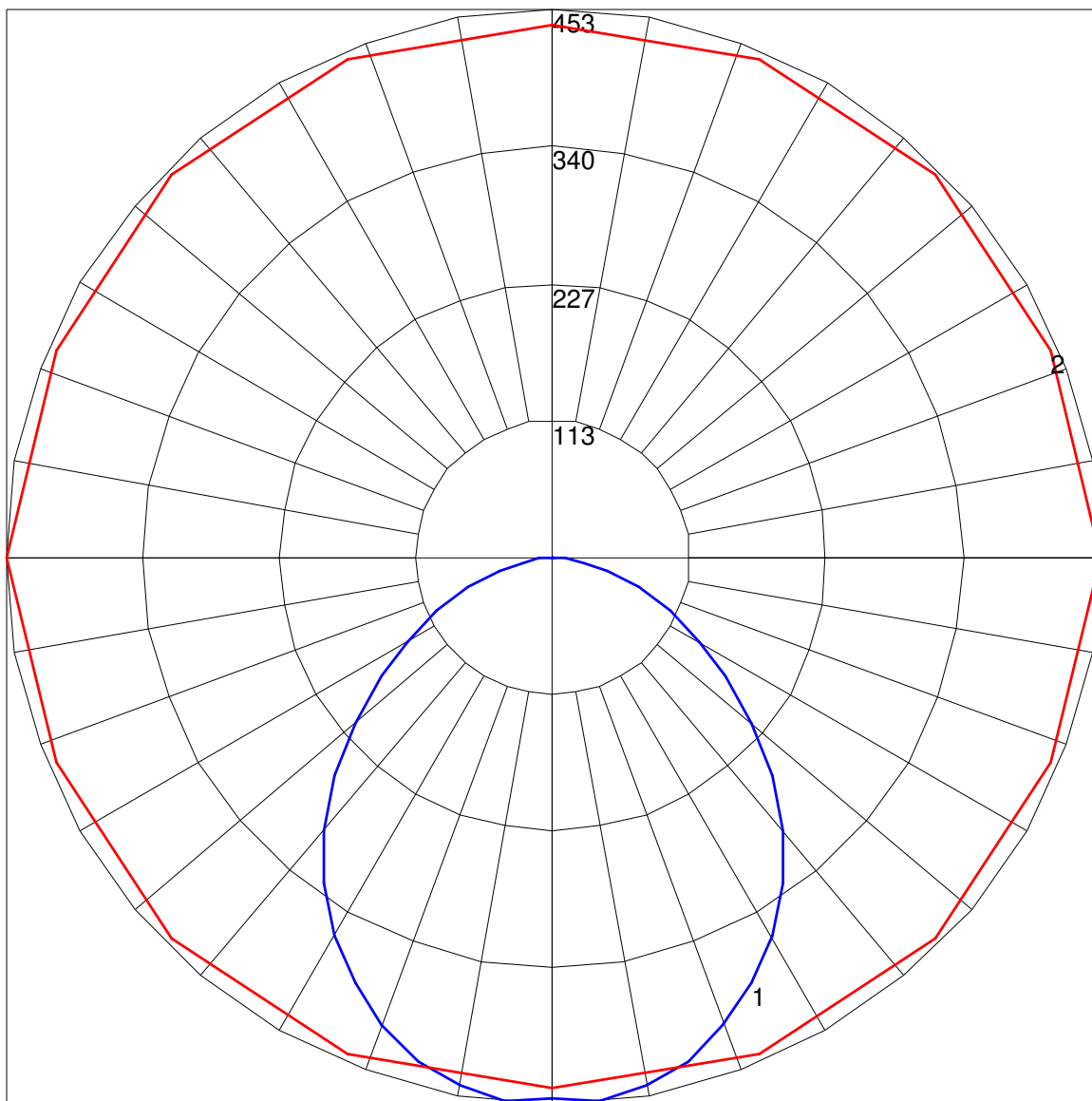
12H	4H	17.9	18.6	18.5	19.2	19.9	21.4	22.2	22.0	22.8	23.4
	6H	18.5	19.1	19.1	19.7	20.4	22.9	23.5	23.5	24.1	24.8
	8H	18.7	19.3	19.3	19.9	20.6	23.7	24.2	24.3	24.8	25.5

Maximum UGR = 26.3

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POLAR GRAPH



Maximum Candela = 453.325 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.)