



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-940-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] 03-31-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-940-10WLP--DIM-UNV

[LAMPCAT] HLM 90 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)	1.22
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	4441	3755	3749
55	3665	3214	3300
65	3019	2699	2780
75	2040	2218	2278
85	1197	1905	1868

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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	406.765	406.765	406.765	406.765	406.765
5	411.231	405.212	405.406	404.435	400.358
10	404.435	399.387	400.358	399.775	396.086
15	392.591	388.902	391.621	392.785	388.902
20	374.729	373.758	378.418	380.359	378.029
25	353.759	355.118	361.720	366.186	364.438
30	329.684	331.625	342.886	349.682	349.294
35	300.365	303.860	320.170	329.684	331.043
40	269.106	271.630	292.211	306.578	309.879
45	232.215	238.623	262.310	281.338	285.998
50	193.966	204.256	233.186	253.961	259.786
55	157.270	170.667	203.285	225.031	233.380
60	126.592	139.018	174.550	196.296	205.033
65	97.274	110.865	147.756	167.560	175.132
70	68.150	86.401	122.321	139.601	146.979
75	41.939	65.238	98.827	115.137	121.544
80	23.299	45.045	78.829	93.973	98.051
85	9.902	31.066	62.908	75.917	78.635
90	1.359	21.358	48.734	60.190	63.879
95	0.194	14.562	39.026	47.763	51.647
100	0.000	9.514	30.289	39.026	42.133
105	0.000	6.796	23.493	31.842	34.366
110	0.000	4.660	18.057	26.017	28.153
115	0.000	3.883	14.756	21.746	23.299
120	0.000	2.912	11.261	17.863	19.416
125	0.000	1.747	8.349	14.174	15.921
130	0.000	1.165	6.019	11.067	12.620
135	0.000	0.582	4.466	8.737	9.902
140	0.000	0.582	3.107	6.796	7.766
145	0.000	0.000	1.942	4.272	5.436
150	0.000	0.000	1.359	3.107	3.883
155	0.000	0.000	0.971	1.553	2.524
160	0.000	0.000	0.388	1.165	1.359
165	0.000	0.000	0.000	0.388	0.582
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-L50-940-EM10WLP-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	148.74	N.A.	11.70
0-30	314.89	N.A.	24.80
0-40	513.15	N.A.	40.40
0-60	892.08	N.A.	70.20
0-80	1127.94	N.A.	88.80
0-90	1187.22	N.A.	93.50
10-90	1148.71	N.A.	90.50
20-40	364.41	N.A.	28.70
20-50	565.30	N.A.	44.50
40-70	518.63	N.A.	40.80
60-80	235.85	N.A.	18.60
70-80	96.15	N.A.	7.60
80-90	59.28	N.A.	4.70
90-110	56.57	N.A.	4.50
90-120	69.54	N.A.	5.50
90-130	76.90	N.A.	6.10
90-150	82.16	N.A.	6.50
90-180	82.71	N.A.	6.50
110-180	26.14	N.A.	2.10
0-180	1269.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	38.51
10-20	110.23
20-30	166.15
30-40	198.26
40-50	200.89
50-60	178.04
60-70	139.70
70-80	96.15
80-90	59.28
90-100	35.29
100-110	21.28
110-120	12.97
120-130	7.36
130-140	3.72
140-150	1.54
150-160	0.48
160-170	0.07
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	13.6	15.1	14.0	15.5	16.0	17.0	18.5	17.4	18.9	19.4
	3H	14.8	16.1	15.2	16.6	17.1	19.2	20.5	19.6	21.0	21.5
	4H	15.1	16.4	15.6	16.9	17.4	20.2	21.5	20.7	22.0	22.5
	6H	15.3	16.5	15.8	17.0	17.5	21.2	22.4	21.8	22.9	23.5
	8H	15.3	16.4	15.8	17.0	17.5	21.8	22.9	22.3	23.4	24.0
	12H	15.3	16.4	15.8	16.9	17.5	22.3	23.4	22.9	23.9	24.5

### UGR Viewed Endwise

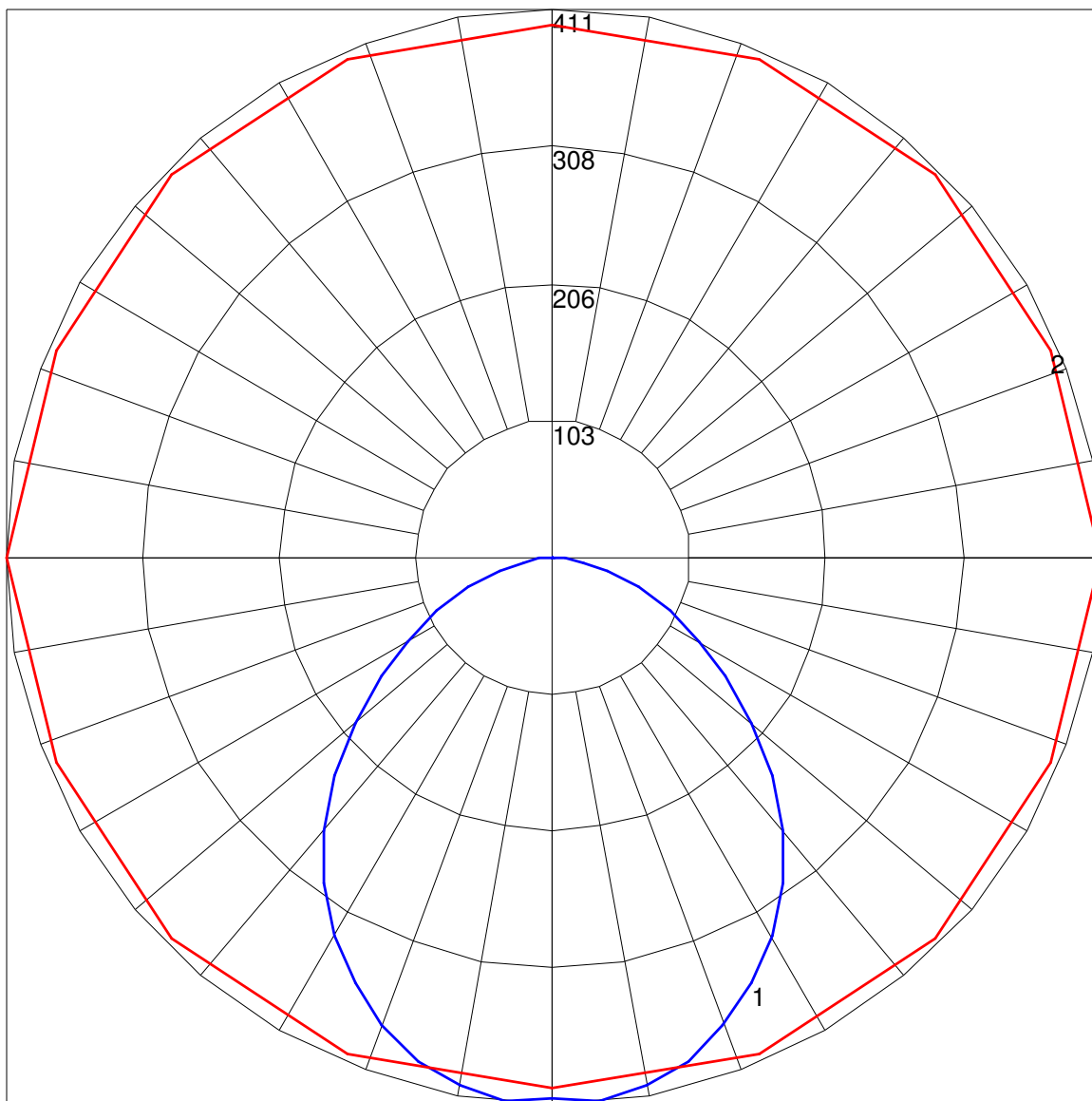
4H	2H	14.6	15.9	15.1	16.4	16.9	17.3	18.6	17.8	19.1	19.6
	3H	16.1	17.2	16.6	17.7	18.2	19.7	20.8	20.2	21.3	21.9
	4H	16.5	17.5	17.1	18.1	18.7	20.9	21.9	21.4	22.4	23.0
	6H	16.8	17.7	17.4	18.2	18.9	22.1	23.0	22.7	23.6	24.2
	8H	16.9	17.7	17.4	18.3	18.9	22.7	23.6	23.3	24.1	24.8
	12H	16.9	17.6	17.5	18.2	18.9	23.4	24.2	24.0	24.8	25.4

8H	4H	17.3	18.1	17.9	18.7	19.3	21.1	21.9	21.6	22.4	23.1
	6H	17.8	18.5	18.4	19.1	19.7	22.4	23.1	23.0	23.7	24.3
	8H	17.9	18.5	18.5	19.2	19.8	23.2	23.8	23.8	24.4	25.1
	12H	18.0	18.6	18.6	19.2	19.9	24.0	24.6	24.6	25.2	25.9

12H	4H	17.5	18.2	18.1	18.8	19.5	21.0	21.8	21.6	22.4	23.0
	6H	18.1	18.7	18.7	19.3	20.0	22.5	23.1	23.1	23.7	24.4
	8H	18.3	18.9	18.9	19.5	20.2	23.3	23.8	23.9	24.4	25.1

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 411.231 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.)