



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-840-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] 02-13-2023

[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-L30-840-EM10WLP-DIM-UNV (EMERGENCY MODE)

[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	1520
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	5315	4494	4486
55	4387	3846	3950
65	3613	3231	3327
75	2441	2655	2726
85	1432	2280	2236

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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	486.837	486.837	486.837	486.837	486.837
5	492.182	484.978	485.210	484.048	479.168
10	484.048	478.006	479.168	478.471	474.056
15	469.873	465.458	468.711	470.106	465.458
20	448.494	447.332	452.909	455.233	452.445
25	423.397	425.024	432.925	438.269	436.178
30	394.582	396.906	410.384	418.517	418.052
35	359.492	363.675	383.195	394.582	396.209
40	322.079	325.100	349.733	366.929	370.879
45	277.927	285.596	313.946	336.719	342.296
50	232.148	244.464	279.089	303.954	310.925
55	188.228	204.262	243.302	269.329	279.321
60	151.512	166.384	208.910	234.937	245.394
65	116.423	132.689	176.841	200.544	209.607
70	81.566	103.409	146.400	167.082	175.912
75	50.194	78.080	118.282	137.802	145.470
80	27.886	53.912	94.346	112.472	117.352
85	11.851	37.181	75.291	90.861	94.114
90	1.627	25.562	58.327	72.038	76.453
95	0.232	17.429	46.708	57.166	61.813
100	0.000	11.387	36.251	46.708	50.427
105	0.000	8.133	28.118	38.110	41.131
110	0.000	5.577	21.611	31.139	33.695
115	0.000	4.648	17.661	26.027	27.886
120	0.000	3.486	13.478	21.379	23.238
125	0.000	2.091	9.992	16.964	19.055
130	0.000	1.394	7.204	13.246	15.105
135	0.000	0.697	5.345	10.457	11.851
140	0.000	0.697	3.718	8.133	9.295
145	0.000	0.000	2.324	5.112	6.507
150	0.000	0.000	1.627	3.718	4.648
155	0.000	0.000	1.162	1.859	3.021
160	0.000	0.000	0.465	1.394	1.627
165	0.000	0.000	0.000	0.465	0.697
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-L30-840-EM10WLP-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	178.02	N.A.	11.70
0-30	376.88	N.A.	24.80
0-40	614.17	N.A.	40.40
0-60	1067.69	N.A.	70.20
0-80	1349.97	N.A.	88.80
0-90	1420.92	N.A.	93.50
10-90	1374.83	N.A.	90.50
20-40	436.15	N.A.	28.70
20-50	676.58	N.A.	44.50
40-70	620.72	N.A.	40.80
60-80	282.28	N.A.	18.60
70-80	115.08	N.A.	7.60
80-90	70.95	N.A.	4.70
90-110	67.71	N.A.	4.50
90-120	83.23	N.A.	5.50
90-130	92.04	N.A.	6.10
90-150	98.33	N.A.	6.50
90-180	98.99	N.A.	6.50
110-180	31.28	N.A.	2.10
0-180	1519.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	46.09
10-20	131.93
20-30	198.85
30-40	237.29
40-50	240.44
50-60	213.09
60-70	167.20
70-80	115.08
80-90	70.95
90-100	42.24
100-110	25.46
110-120	15.52
120-130	8.81
130-140	4.45
140-150	1.84
150-160	0.57
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	14.3	15.8	14.7	16.2	16.7	17.7	19.1	18.1	19.6	20.1
	3H	15.5	16.8	15.9	17.3	17.8	19.9	21.2	20.3	21.7	22.2
	4H	15.8	17.1	16.3	17.6	18.1	20.9	22.2	21.4	22.7	23.2
	6H	16.0	17.2	16.5	17.7	18.2	21.9	23.1	22.4	23.6	24.2
	8H	16.0	17.1	16.5	17.7	18.2	22.5	23.6	23.0	24.1	24.7
	12H	16.0	17.1	16.5	17.6	18.2	23.0	24.1	23.6	24.6	25.2

### UGR Viewed Endwise

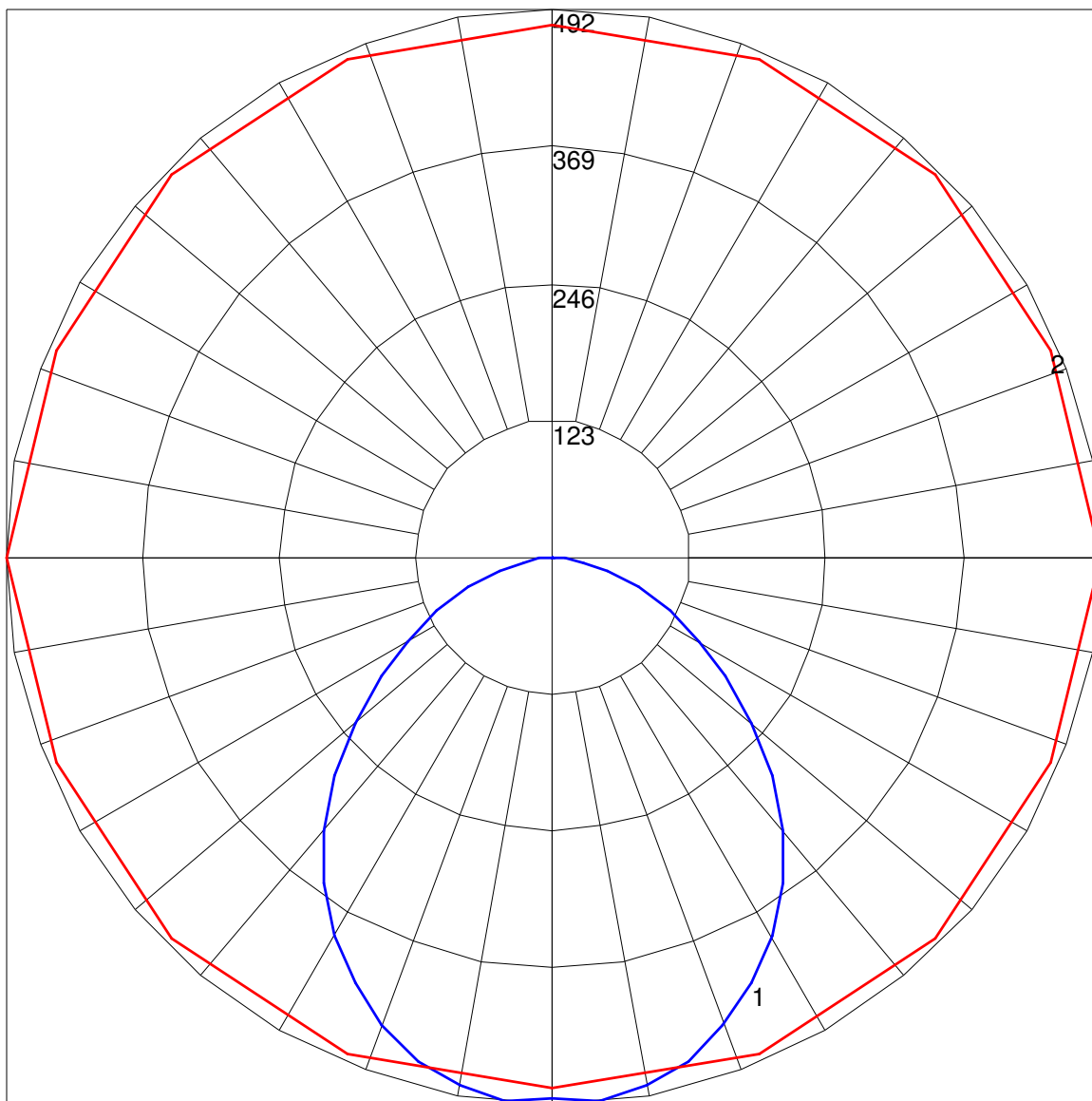
4H	2H	15.3	16.6	15.8	17.1	17.6	18.0	19.3	18.5	19.7	20.3
	3H	16.8	17.9	17.3	18.4	18.9	20.4	21.5	20.9	22.0	22.6
	4H	17.2	18.2	17.8	18.8	19.4	21.6	22.6	22.1	23.1	23.7
	6H	17.5	18.4	18.1	18.9	19.6	22.8	23.7	23.4	24.3	24.9
	8H	17.6	18.4	18.1	19.0	19.6	23.4	24.3	24.0	24.8	25.4
	12H	17.6	18.3	18.2	18.9	19.6	24.1	24.9	24.7	25.5	26.1

8H	4H	18.0	18.8	18.6	19.4	20.0	21.7	22.6	22.3	23.1	23.8
	6H	18.5	19.2	19.1	19.8	20.4	23.1	23.8	23.7	24.4	25.0
	8H	18.6	19.2	19.2	19.9	20.5	23.9	24.5	24.5	25.1	25.8
	12H	18.7	19.3	19.3	19.9	20.6	24.7	25.3	25.3	25.9	26.6

12H	4H	18.2	18.9	18.8	19.5	20.2	21.7	22.5	22.3	23.1	23.7
	6H	18.8	19.4	19.4	20.0	20.7	23.2	23.8	23.8	24.4	25.0
	8H	19.0	19.6	19.6	20.2	20.9	23.9	24.5	24.6	25.1	25.8

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 492.182 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.)