



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-3-L40-840-(L30)-EM10WRM-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] 04-28-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 3' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-3-L40-840-(L30)-EM10WRM--DIM-UNV

[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	1510
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
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)	2.80 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	6959	5909	5926
55	5722	5050	5217
65	4685	4235	4395
75	3127	3471	3601
85	1752	2970	2953

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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	483.634	483.634	483.634	483.634	483.634
5	488.943	481.787	482.018	480.864	476.016
10	480.864	474.862	476.016	475.323	470.937
15	466.782	462.396	465.627	467.013	462.396
20	445.543	444.389	449.930	452.238	449.468
25	420.611	422.227	430.076	435.386	433.308
30	391.986	394.294	407.684	415.764	415.302
35	357.127	361.283	380.674	391.986	393.602
40	319.960	322.961	347.432	364.515	368.439
45	276.098	283.716	311.880	334.504	340.044
50	230.621	242.856	277.253	301.954	308.879
55	186.990	202.918	241.702	267.557	277.484
60	150.515	165.290	207.535	233.391	243.779
65	115.657	131.816	175.678	199.225	208.228
70	81.029	102.729	145.436	165.982	174.755
75	49.864	77.566	117.503	136.895	144.513
80	27.702	53.558	93.726	111.732	116.580
85	11.773	36.936	74.796	90.263	93.495
90	1.616	25.394	57.944	71.564	75.950
95	0.231	17.314	46.401	56.789	61.406
100	0.000	11.312	36.013	46.401	50.095
105	0.000	8.080	27.933	37.860	40.861
110	0.000	5.540	21.469	30.934	33.473
115	0.000	4.617	17.545	25.855	27.702
120	0.000	3.463	13.389	21.238	23.085
125	0.000	2.078	9.927	16.852	18.930
130	0.000	1.385	7.156	13.159	15.005
135	0.000	0.693	5.310	10.388	11.773
140	0.000	0.693	3.694	8.080	9.234
145	0.000	0.000	2.309	5.079	6.464
150	0.000	0.000	1.616	3.694	4.617
155	0.000	0.000	1.154	1.847	3.001
160	0.000	0.000	0.462	1.385	1.616
165	0.000	0.000	0.000	0.462	0.693
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-3-L40-840-(L30)-EM10WRM-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	176.85	N.A.	11.70
0-30	374.40	N.A.	24.80
0-40	610.13	N.A.	40.40
0-60	1060.67	N.A.	70.20
0-80	1341.09	N.A.	88.80
0-90	1411.57	N.A.	93.50
10-90	1365.79	N.A.	90.50
20-40	433.28	N.A.	28.70
20-50	672.13	N.A.	44.50
40-70	616.64	N.A.	40.80
60-80	280.43	N.A.	18.60
70-80	114.32	N.A.	7.60
80-90	70.48	N.A.	4.70
90-110	67.26	N.A.	4.50
90-120	82.68	N.A.	5.50
90-130	91.43	N.A.	6.10
90-150	97.68	N.A.	6.50
90-180	98.34	N.A.	6.50
110-180	31.08	N.A.	2.10
0-180	1509.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	45.79
10-20	131.06
20-30	197.54
30-40	235.73
40-50	238.85
50-60	211.68
60-70	166.10
70-80	114.32
80-90	70.48
90-100	41.96
100-110	25.30
110-120	15.42
120-130	8.75
130-140	4.42
140-150	1.83
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	15.1	16.6	15.6	17.1	17.6	18.5	20.0	19.0	20.5	20.9
	3H	16.3	17.7	16.8	18.2	18.7	20.7	22.1	21.2	22.5	23.1
	4H	16.7	18.0	17.2	18.4	19.0	21.7	23.0	22.2	23.5	24.0
	6H	16.8	18.0	17.4	18.5	19.1	22.7	23.9	23.2	24.4	25.0
	8H	16.9	18.0	17.4	18.5	19.1	23.3	24.4	23.8	24.9	25.5
	12H	16.9	18.0	17.4	18.5	19.1	23.8	24.9	24.4	25.4	26.0

### UGR Viewed Endwise

4H	2H	16.2	17.5	16.7	18.0	18.5	18.8	20.1	19.3	20.6	21.1
	3H	17.6	18.7	18.2	19.3	19.8	21.2	22.3	21.8	22.9	23.4
	4H	18.1	19.1	18.6	19.6	20.2	22.4	23.4	23.0	24.0	24.5
	6H	18.4	19.3	18.9	19.8	20.4	23.6	24.5	24.2	25.1	25.7
	8H	18.5	19.3	19.0	19.8	20.5	24.3	25.1	24.8	25.6	26.3
	12H	18.5	19.2	19.1	19.8	20.4	24.9	25.7	25.5	26.3	26.9

8H	4H	18.9	19.7	19.4	20.3	20.9	22.6	23.4	23.1	24.0	24.6
	6H	19.3	20.0	19.9	20.6	21.3	23.9	24.6	24.5	25.2	25.9
	8H	19.5	20.1	20.1	20.7	21.4	24.7	25.3	25.3	25.9	26.6
	12H	19.6	20.1	20.2	20.7	21.4	25.5	26.1	26.1	26.7	27.4

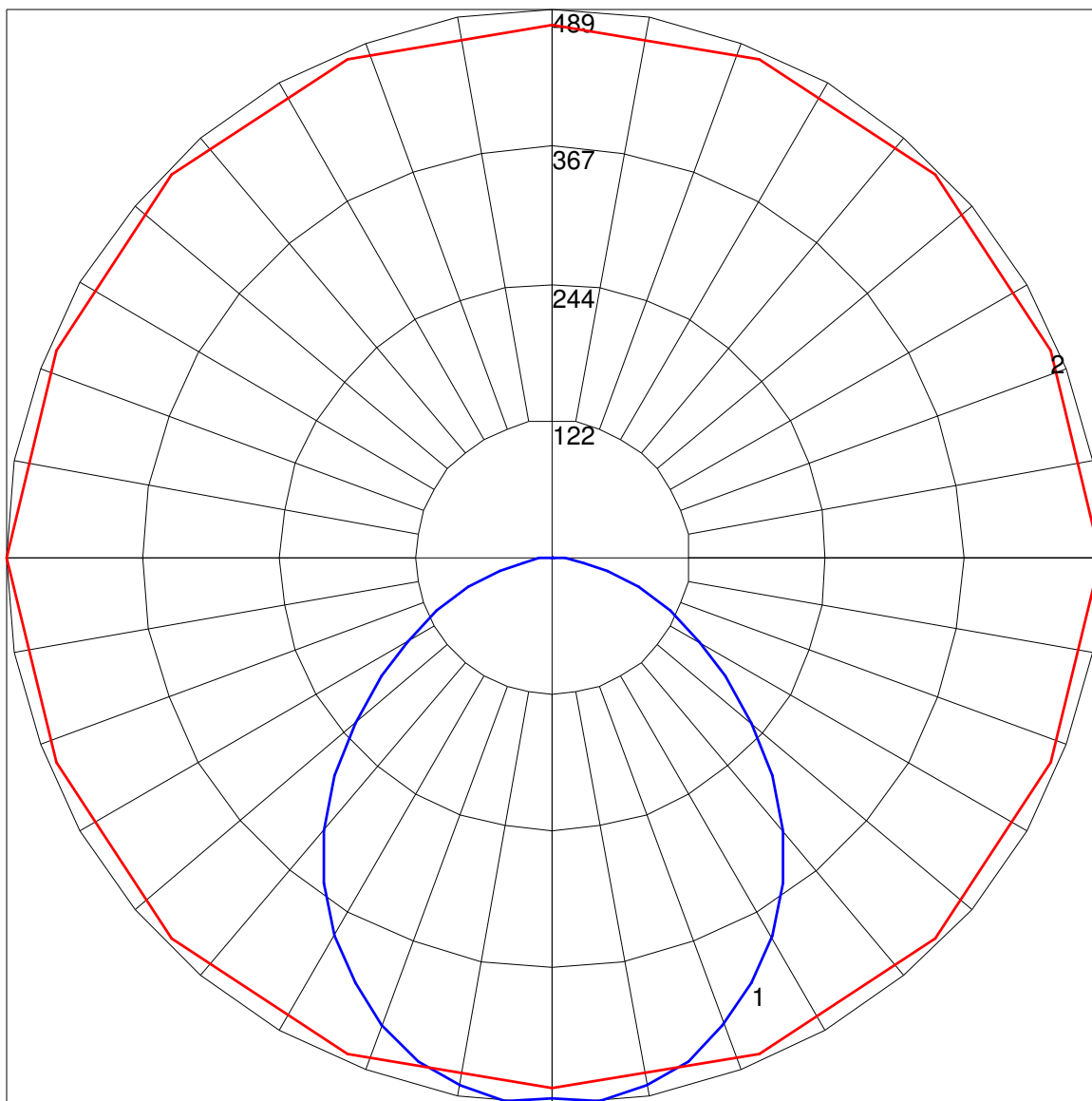
12H	4H	19.1	19.8	19.7	20.4	21.0	22.6	23.3	23.2	23.9	24.5
	6H	19.7	20.3	20.3	20.9	21.6	24.0	24.6	24.6	25.2	25.9
	8H	19.9	20.5	20.5	21.1	21.8	24.8	25.3	25.4	25.9	26.6

Maximum UGR = 27.4

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## POLAR GRAPH



Maximum Candela = 488.943 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.)