

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-3-L40-840-(L23)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 08-29-2023

[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-(L23)-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	2397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
Total Luminaire Watts	15.61
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	11047	9380	9408
55	9084	8017	8282
65	7437	6722	6977
75	4964	5510	5717
85	2782	4714	4688

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-3-L40-840-(L23)-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	767.729	767.729	767.729	767.729	767.729
5	776.157	764.797	765.164	763.331	755.636
10	763.331	753.803	755.636	754.536	747.574
15	740.977	734.015	739.145	741.344	734.015
20	707.263	705.431	714.226	717.891	713.493
25	667.686	670.251	682.711	691.139	687.841
30	622.245	625.910	647.164	659.990	659.257
35	566.910	573.506	604.289	622.245	624.810
40	507.910	512.674	551.519	578.637	584.866
45	438.283	450.377	495.084	530.997	539.792
50	366.091	385.514	440.116	479.327	490.320
55	296.831	322.116	383.681	424.724	440.482
60	238.930	262.384	329.445	370.489	386.979
65	183.595	209.247	278.874	316.253	330.545
70	128.627	163.074	230.868	263.483	277.408
75	79.155	123.130	186.527	217.309	229.403
80	43.975	85.018	148.782	177.366	185.061
85	18.689	58.633	118.732	143.285	148.415
90	2.565	40.310	91.981	113.602	120.565
95	0.366	27.484	73.658	90.149	97.478
100	0.000	17.956	57.167	73.658	79.521
105	0.000	12.826	44.341	60.099	64.863
110	0.000	8.795	34.081	49.105	53.136
115	0.000	7.329	27.851	41.043	43.975
120	0.000	5.497	21.255	33.714	36.646
125	0.000	3.298	15.758	26.751	30.050
130	0.000	2.199	11.360	20.888	23.820
135	0.000	1.099	8.429	16.491	18.689
140	0.000	1.099	5.863	12.826	14.658
145	0.000	0.000	3.665	8.062	10.261
150	0.000	0.000	2.565	5.863	7.329
155	0.000	0.000	1.832	2.932	4.764
160	0.000	0.000	0.733	2.199	2.565
165	0.000	0.000	0.000	0.733	1.099
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-(L23)-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	280.74	N.A.	11.70
0-30	594.32	N.A.	24.80
0-40	968.53	N.A.	40.40
0-60	1683.72	N.A.	70.20
0-80	2128.87	N.A.	88.80
0-90	2240.75	N.A.	93.50
10-90	2168.07	N.A.	90.50
20-40	687.79	N.A.	28.70
20-50	1066.95	N.A.	44.50
40-70	978.87	N.A.	40.80
60-80	445.15	N.A.	18.60
70-80	181.48	N.A.	7.60
80-90	111.88	N.A.	4.70
90-110	106.77	N.A.	4.50
90-120	131.25	N.A.	5.50
90-130	145.14	N.A.	6.10
90-150	155.06	N.A.	6.50
90-180	156.10	N.A.	6.50
110-180	49.33	N.A.	2.10
0-180	2396.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	72.68
10-20	208.05
20-30	313.59
30-40	374.20
40-50	379.16
50-60	336.03
60-70	263.67
70-80	181.48
80-90	111.88
90-100	66.61
100-110	40.15
110-120	24.48
120-130	13.89
130-140	7.02
140-150	2.90
150-160	0.91
160-170	0.13
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-3-L40-840-(L23)-DIM-UNV\_.IES**

**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

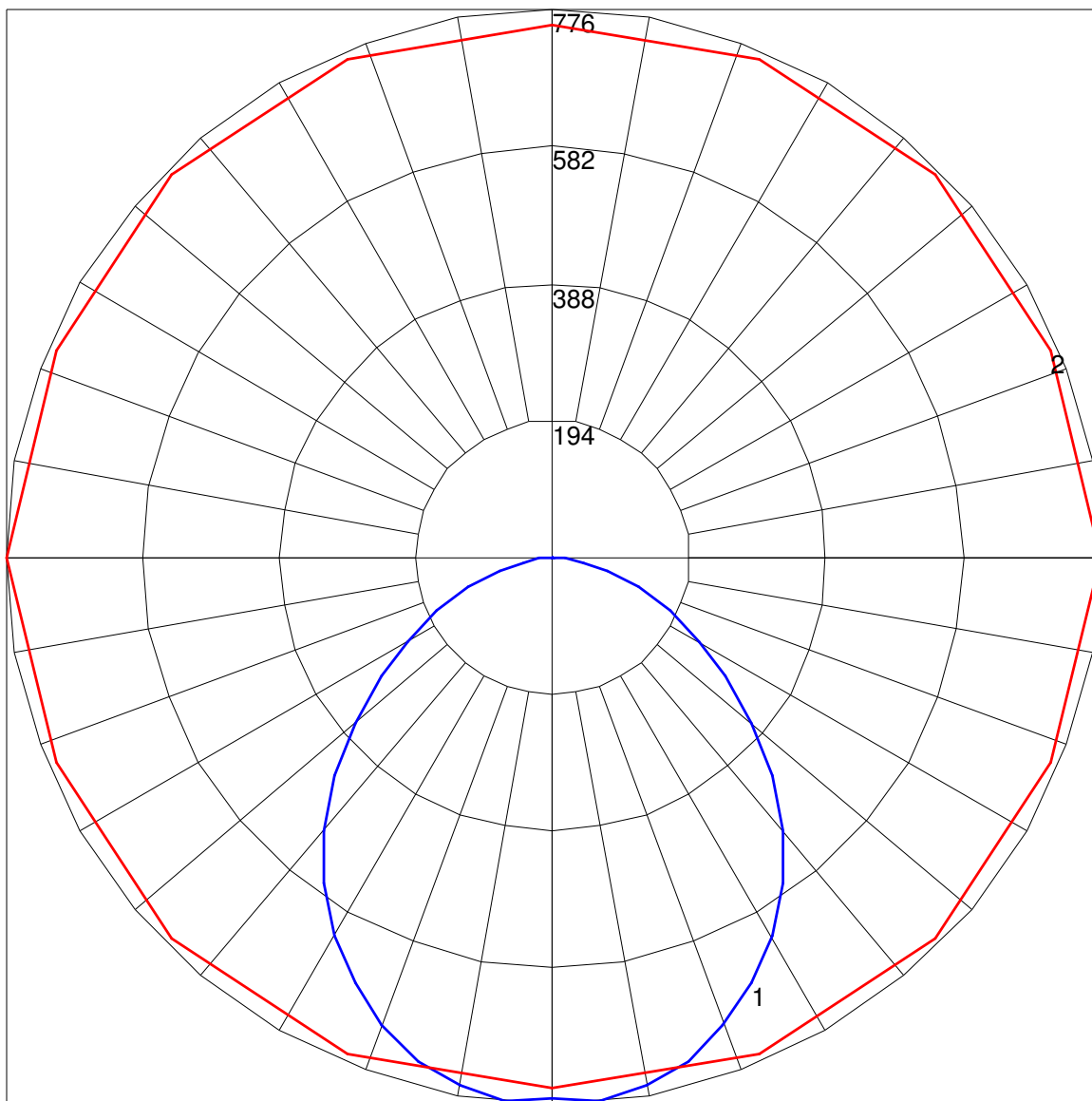
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-3-L40-840-(L23)-DIM-UNV\_.IES**

**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					UGR Viewed Endwise				
X=2H	Y=2H	16.7	18.2	17.2	18.7	19.2	20.1	21.6	20.6	22.1	22.5
	3H	17.9	19.3	18.4	19.8	20.3	22.3	23.7	22.8	24.1	24.7
	4H	18.3	19.6	18.8	20.0	20.6	23.3	24.6	23.8	25.1	25.6
	6H	18.5	19.6	19.0	20.1	20.7	24.4	25.5	24.9	26.0	26.6
	8H	18.5	19.6	19.0	20.1	20.7	24.9	26.0	25.4	26.5	27.1
	12H	18.5	19.6	19.0	20.1	20.7	25.4	26.5	26.0	27.0	27.6
4H	2H	17.8	19.1	18.3	19.6	20.1	20.4	21.7	20.9	22.2	22.7
	3H	19.2	20.3	19.8	20.9	21.4	22.8	23.9	23.4	24.5	25.0
	4H	19.7	20.7	20.2	21.2	21.8	24.0	25.0	24.6	25.6	26.2
	6H	20.0	20.9	20.5	21.4	22.0	25.2	26.1	25.8	26.7	27.3
	8H	20.1	20.9	20.6	21.4	22.1	25.9	26.7	26.4	27.2	27.9
	12H	20.1	20.8	20.7	21.4	22.0	26.5	27.3	27.1	27.9	28.5
8H	4H	20.5	21.3	21.0	21.9	22.5	24.2	25.0	24.8	25.6	26.2
	6H	20.9	21.6	21.5	22.2	22.9	25.5	26.2	26.1	26.8	27.5
	8H	21.1	21.7	21.7	22.3	23.0	26.3	26.9	26.9	27.5	28.2
	12H	21.2	21.7	21.8	22.3	23.0	27.1	27.7	27.7	28.3	29.0
12H	4H	20.7	21.4	21.3	22.0	22.6	24.2	24.9	24.8	25.5	26.1
	6H	21.3	21.9	21.9	22.5	23.2	25.6	26.2	26.2	26.8	27.5
	8H	21.5	22.1	22.1	22.7	23.4	26.4	26.9	27.0	27.5	28.2

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 776.157 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.)