



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L40-8TW-DIM-UNV 4000K\_.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] 31-OCT-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L40-8TW-DIM-UNV 4000k

[\_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	3743
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	24.66
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	13089	11067	11048
55	10803	9471	9726
65	8897	7956	8193
75	6012	6537	6713
85	3528	5615	5505

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-4-L40-8TW-DIM-UNV 4000K\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1198.836	1198.836	1198.836	1198.836	1198.836
5	1211.997	1194.258	1194.830	1191.969	1179.952
10	1191.969	1177.091	1179.952	1178.235	1167.363
15	1157.062	1146.190	1154.201	1157.635	1146.190
20	1104.417	1101.555	1115.289	1121.011	1114.145
25	1042.615	1046.621	1066.077	1079.238	1074.088
30	971.658	977.380	1010.570	1030.598	1029.454
35	885.250	895.550	943.618	971.658	975.663
40	793.120	800.559	861.216	903.562	913.290
45	684.395	703.279	773.092	829.171	842.905
50	571.664	601.993	687.256	748.485	765.653
55	463.512	502.996	599.132	663.222	687.828
60	373.098	409.721	514.441	578.531	604.282
65	286.691	326.747	435.472	493.840	516.157
70	200.855	254.645	360.509	411.438	433.183
75	123.603	192.271	291.268	339.336	358.220
80	68.668	132.759	232.328	276.963	288.979
85	29.184	91.558	185.405	223.745	231.756
90	4.006	62.946	143.631	177.393	188.266
95	0.572	42.918	115.020	140.770	152.215
100	0.000	28.040	89.269	115.020	124.175
105	0.000	20.028	69.241	93.847	101.286
110	0.000	13.734	53.218	76.680	82.974
115	0.000	11.445	43.490	64.090	68.668
120	0.000	8.584	33.190	52.646	57.224
125	0.000	5.150	24.606	41.773	46.923
130	0.000	3.433	17.739	32.617	37.195
135	0.000	1.717	13.161	25.751	29.184
140	0.000	1.717	9.156	20.028	22.889
145	0.000	0.000	5.722	12.589	16.023
150	0.000	0.000	4.006	9.156	11.445
155	0.000	0.000	2.861	4.578	7.439
160	0.000	0.000	1.144	3.433	4.006
165	0.000	0.000	0.000	1.144	1.717
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-L40-8TW-DIM-UNV 4000K\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	438.38	N.A.	11.70
0-30	928.06	N.A.	24.80
0-40	1512.39	N.A.	40.40
0-60	2629.19	N.A.	70.20
0-80	3324.31	N.A.	88.80
0-90	3499.02	N.A.	93.50
10-90	3385.52	N.A.	90.50
20-40	1074.01	N.A.	28.70
20-50	1666.08	N.A.	44.50
40-70	1528.53	N.A.	40.80
60-80	695.12	N.A.	18.60
70-80	283.38	N.A.	7.60
80-90	174.71	N.A.	4.70
90-110	166.72	N.A.	4.50
90-120	204.95	N.A.	5.50
90-130	226.65	N.A.	6.10
90-150	242.14	N.A.	6.50
90-180	243.76	N.A.	6.50
110-180	77.03	N.A.	2.10
0-180	3742.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	113.50
10-20	324.88
20-30	489.67
30-40	584.33
40-50	592.07
50-60	524.72
60-70	411.74
70-80	283.38
80-90	174.71
90-100	104.02
100-110	62.70
110-120	38.22
120-130	21.70
130-140	10.96
140-150	4.53
150-160	1.42
160-170	0.21
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-4-L40-8TW-DIM-UNV 4000K\_.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	67	67	67	67	65	65	65	65	62	62	62	58	58	58	55	55	55	53
1	61	58	55	53	59	56	54	51	53	51	49	50	48	47	47	46	45	43
2	55	50	46	42	53	49	45	42	46	43	40	44	41	39	41	39	37	36
3	50	44	39	35	48	43	38	35	40	37	34	38	35	32	36	34	31	30
4	46	39	34	30	44	38	33	29	36	32	29	34	31	28	32	29	27	26
5	42	35	29	26	41	34	29	25	32	28	25	31	27	24	29	26	23	22
6	39	31	26	22	38	30	26	22	29	25	22	28	24	21	26	23	21	19
7	36	28	23	20	35	28	23	20	26	22	19	25	22	19	24	21	18	17
8	34	26	21	18	32	25	21	17	24	20	17	23	19	17	22	19	16	15
9	31	24	19	16	30	23	19	16	22	18	15	21	18	15	21	17	15	14
10	29	22	17	14	29	21	17	14	21	17	14	20	16	14	19	16	13	12

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-4-L40-8TW-DIM-UNV 4000K\_.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

X=2H	Y=2H	20.3	21.8	20.8	22.3	22.8	22.7	24.2	23.1	24.6	25.1
	3H	21.8	23.2	22.3	23.6	24.2	24.9	26.2	25.3	26.7	27.2
	4H	22.3	23.6	22.8	24.1	24.6	25.9	27.2	26.4	27.7	28.2
	6H	22.6	23.8	23.1	24.3	24.9	26.9	28.1	27.5	28.6	29.2
	8H	22.7	23.8	23.2	24.4	24.9	27.5	28.6	28.0	29.1	29.7
	12H	22.8	23.9	23.3	24.4	25.0	28.0	29.1	28.6	29.6	30.2

UGR Viewed Endwise

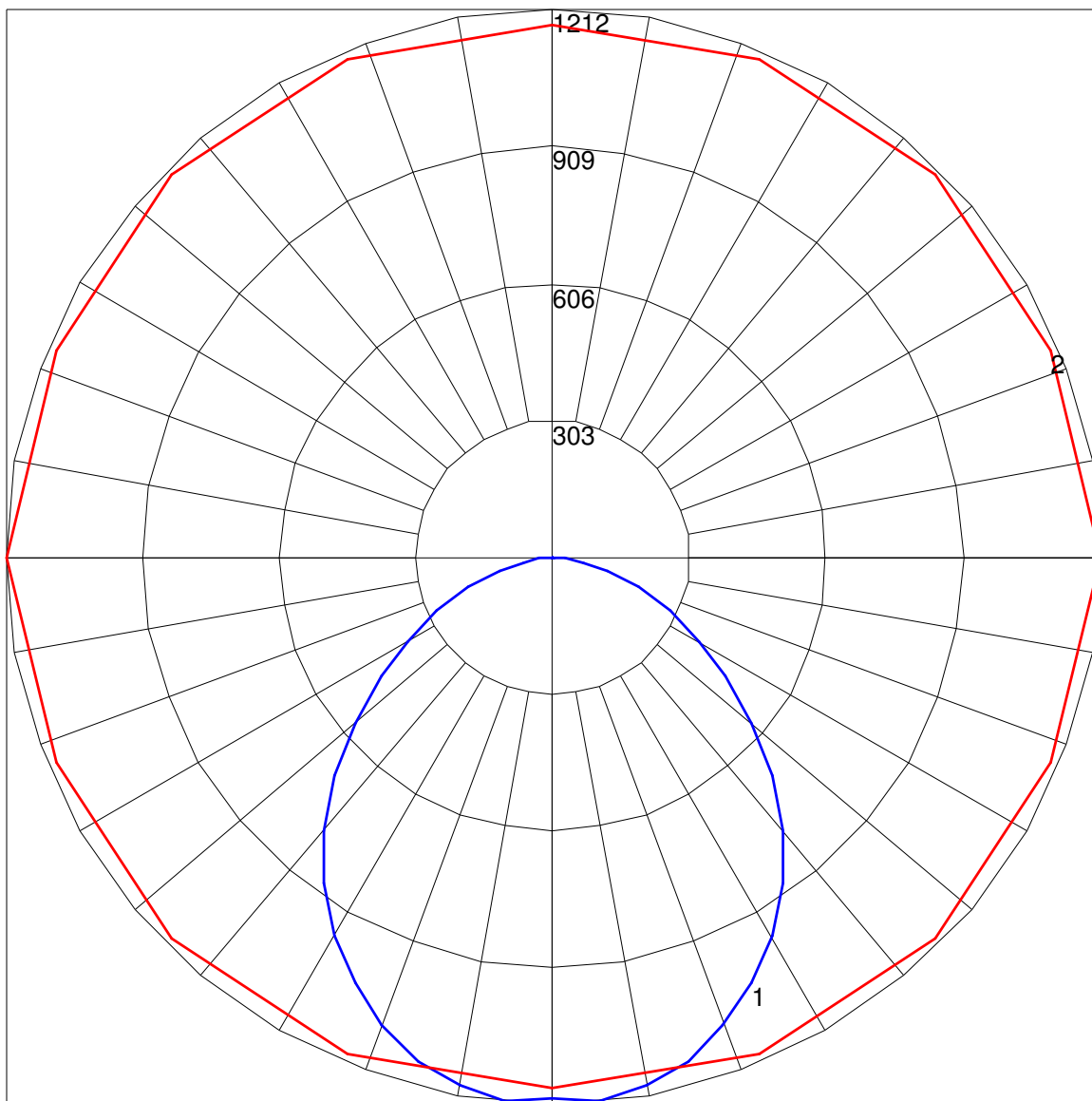
4H	2H	21.1	22.4	21.6	22.9	23.4	23.0	24.3	23.5	24.8	25.3
	3H	22.8	23.9	23.3	24.4	25.0	25.4	26.5	25.9	27.0	27.6
	4H	23.4	24.4	24.0	24.9	25.5	26.6	27.6	27.1	28.1	28.7
	6H	23.9	24.7	24.4	25.3	25.9	27.8	28.7	28.4	29.3	29.9
	8H	24.0	24.8	24.6	25.4	26.0	28.4	29.3	29.0	29.8	30.4
	12H	24.1	24.8	24.7	25.4	26.1	29.1	29.9	29.7	30.5	31.1

8H	4H	23.9	24.8	24.5	25.3	25.9	26.8	27.6	27.3	28.1	28.8
	6H	24.5	25.2	25.1	25.9	26.5	28.1	28.8	28.7	29.4	30.0
	8H	24.8	25.4	25.4	26.0	26.7	28.9	29.5	29.5	30.1	30.8
	12H	25.0	25.5	25.6	26.1	26.8	29.7	30.3	30.3	30.9	31.6

12H	4H	24.0	24.8	24.6	25.4	26.0	26.7	27.5	27.3	28.1	28.7
	6H	24.8	25.4	25.4	26.0	26.6	28.2	28.8	28.8	29.4	30.1
	8H	25.1	25.6	25.7	26.2	26.9	28.9	29.5	29.6	30.1	30.8

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 1211.997 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.)