



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L27-8FS-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

[ISSUEDATE] 1-NOV-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-L27-8FS-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	2537
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	17.5
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	8872	7501	7488
55	7322	6420	6592
65	6030	5392	5553
75	4075	4431	4550
85	2391	3806	3731

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L27-8FS-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	812.569	812.569	812.569	812.569	812.569
5	821.490	809.466	809.854	807.915	799.770
10	807.915	797.830	799.770	798.606	791.237
15	784.255	776.886	782.316	784.643	776.886
20	748.572	746.633	755.941	759.820	755.166
25	706.683	709.398	722.585	731.506	728.015
30	658.588	662.467	684.963	698.538	697.762
35	600.021	607.003	639.583	658.588	661.303
40	537.575	542.618	583.731	612.433	619.026
45	463.882	476.681	524.000	562.011	571.319
50	387.473	408.030	465.821	507.322	518.958
55	314.167	340.930	406.091	449.531	466.209
60	252.885	277.709	348.687	392.128	409.581
65	194.318	221.469	295.162	334.724	349.851
70	136.139	172.598	244.352	278.872	293.611
75	83.778	130.321	197.421	230.002	242.801
80	46.543	89.984	157.472	187.725	195.870
85	19.781	62.058	125.667	151.654	157.084
90	2.715	42.665	97.353	120.237	127.606
95	0.388	29.090	77.960	95.414	103.171
100	0.000	19.005	60.506	77.960	84.166
105	0.000	13.575	46.931	63.609	68.651
110	0.000	9.309	36.071	51.973	56.240
115	0.000	7.757	29.477	43.440	46.543
120	0.000	5.818	22.496	35.683	38.786
125	0.000	3.491	16.678	28.314	31.805
130	0.000	2.327	12.024	22.108	25.211
135	0.000	1.164	8.921	17.454	19.781
140	0.000	1.164	6.206	13.575	15.514
145	0.000	0.000	3.879	8.533	10.860
150	0.000	0.000	2.715	6.206	7.757
155	0.000	0.000	1.939	3.103	5.042
160	0.000	0.000	0.776	2.327	2.715
165	0.000	0.000	0.000	0.776	1.164
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-L27-8FS-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	297.13	N.A.	11.70
0-30	629.04	N.A.	24.80
0-40	1025.1	N.A.	40.40
0-60	1782.06	N.A.	70.20
0-80	2253.21	N.A.	88.80
0-90	2371.63	N.A.	93.50
10-90	2294.7	N.A.	90.50
20-40	727.96	N.A.	28.70
20-50	1129.27	N.A.	44.50
40-70	1036.04	N.A.	40.80
60-80	471.15	N.A.	18.60
70-80	192.08	N.A.	7.60
80-90	118.42	N.A.	4.70
90-110	113.01	N.A.	4.50
90-120	138.91	N.A.	5.50
90-130	153.62	N.A.	6.10
90-150	164.12	N.A.	6.50
90-180	165.22	N.A.	6.50
110-180	52.21	N.A.	2.10
0-180	2536.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.93
10-20	220.21
20-30	331.90
30-40	396.06
40-50	401.31
50-60	355.66
60-70	279.07
70-80	192.08
80-90	118.42
90-100	70.51
100-110	42.50
110-120	25.91
120-130	14.71
130-140	7.43
140-150	3.07
150-160	0.96
160-170	0.14
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L27-8FS-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	80	80	80	80	77	77	77	77	73	73	73	69	69	69	65	65	65	63
1	72	68	65	62	70	66	63	61	63	60	58	59	57	55	56	54	53	51
2	65	59	54	50	63	58	53	49	54	51	48	52	48	46	49	46	44	42
3	59	52	46	42	57	51	45	41	48	43	40	45	42	38	43	40	37	36
4	54	46	40	35	52	45	39	35	43	38	34	40	36	33	38	35	32	30
5	50	41	35	30	48	40	34	30	38	33	29	36	32	28	35	31	28	26
6	46	37	31	26	45	36	30	26	34	29	26	33	28	25	31	27	24	23
7	43	34	28	23	41	33	27	23	31	26	23	30	25	22	29	25	22	20
8	40	31	25	21	38	30	24	21	29	24	20	27	23	20	26	22	19	18
9	37	28	22	19	36	27	22	19	26	22	18	25	21	18	24	20	18	16
10	35	26	21	17	34	25	20	17	24	20	17	23	19	16	23	19	16	15

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L27-8FS-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

X=2H	Y=2H	18.4	19.9	18.9	20.4	20.9	20.8	22.3	21.2	22.7	23.2
	3H	19.9	21.3	20.4	21.7	22.3	23.0	24.3	23.4	24.8	25.3
	4H	20.4	21.7	20.9	22.2	22.7	24.0	25.3	24.5	25.8	26.3
	6H	20.7	21.9	21.2	22.4	23.0	25.0	26.2	25.6	26.7	27.3
	8H	20.8	21.9	21.3	22.5	23.0	25.6	26.7	26.1	27.2	27.8
	12H	20.9	22.0	21.4	22.5	23.1	26.1	27.2	26.7	27.7	28.3

UGR Viewed Endwise

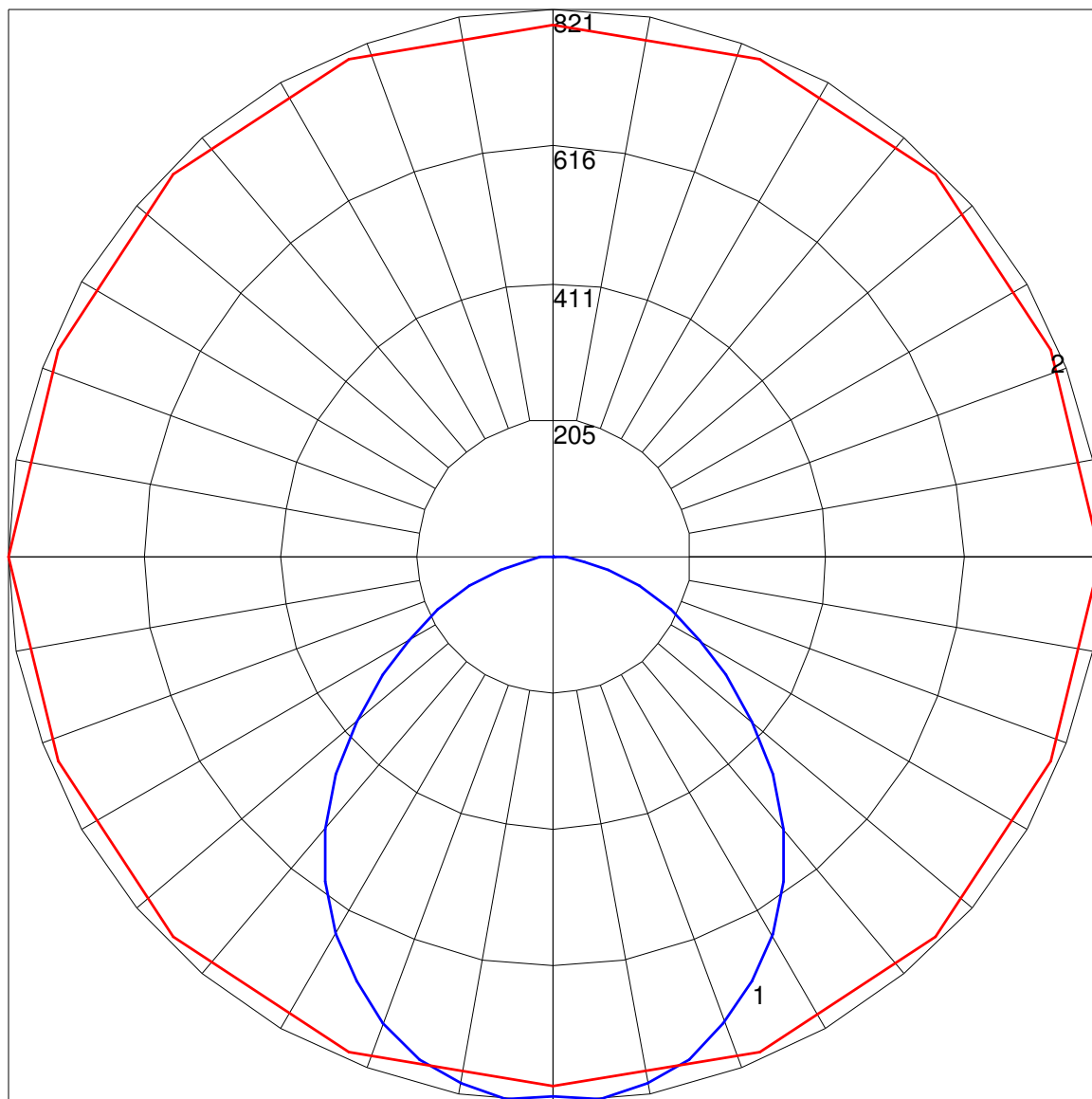
4H	2H	19.2	20.5	19.7	21.0	21.5	21.1	22.4	21.6	22.9	23.4
	3H	20.9	22.0	21.4	22.5	23.1	23.5	24.6	24.0	25.1	25.7
	4H	21.5	22.5	22.1	23.1	23.6	24.7	25.7	25.2	26.2	26.8
	6H	22.0	22.8	22.5	23.4	24.0	25.9	26.8	26.5	27.4	28.0
	8H	22.1	22.9	22.7	23.5	24.1	26.5	27.4	27.1	27.9	28.5
	12H	22.2	22.9	22.8	23.5	24.2	27.2	28.0	27.8	28.6	29.2

8H	4H	22.0	22.9	22.6	23.4	24.0	24.9	25.7	25.4	26.2	26.9
	6H	22.6	23.3	23.2	24.0	24.6	26.2	26.9	26.8	27.5	28.1
	8H	22.9	23.5	23.5	24.1	24.8	27.0	27.6	27.6	28.2	28.9
	12H	23.1	23.6	23.7	24.2	24.9	27.8	28.4	28.4	29.0	29.7

12H	4H	22.1	22.9	22.7	23.5	24.1	24.8	25.6	25.4	26.2	26.8
	6H	22.9	23.5	23.5	24.1	24.7	26.3	26.9	26.9	27.5	28.2
	8H	23.2	23.7	23.8	24.3	25.0	27.0	27.6	27.7	28.2	28.9

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 821.49 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.)