



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-2-L25-8TW-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] 1-NOV-2019

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-2-L25-8TW-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	2509
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	176
Total Luminaire Watts	14.23
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)	1.88 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	16907	14472	14650
55	13806	12337	12897
65	11179	10312	10865
75	7297	8414	8902
85	3782	7145	7300

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-2-L25-8TW-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	803.601	803.601	803.601	803.601	803.601
5	812.423	800.532	800.916	798.998	790.943
10	798.998	789.025	790.943	789.792	782.504
15	775.600	768.312	773.682	775.983	768.312
20	740.310	738.392	747.598	751.434	746.831
25	698.883	701.569	714.610	723.433	719.980
30	651.319	655.155	677.403	690.828	690.061
35	593.399	600.303	632.524	651.319	654.005
40	531.642	536.629	577.288	605.673	612.194
45	458.762	471.420	518.217	555.808	565.014
50	383.197	403.527	460.680	501.723	513.231
55	310.700	337.167	401.609	444.570	461.064
60	250.094	274.644	344.839	387.800	405.061
65	192.174	219.024	291.905	331.030	345.990
70	134.637	170.693	241.656	275.794	290.370
75	82.853	128.883	195.242	227.463	240.121
80	46.030	88.991	155.734	185.653	193.708
85	19.563	61.373	124.280	149.980	155.350
90	2.685	42.194	96.279	118.910	126.198
95	0.384	28.769	77.100	94.361	102.032
100	0.000	18.795	59.839	77.100	83.237
105	0.000	13.425	46.413	62.907	67.894
110	0.000	9.206	35.673	51.400	55.619
115	0.000	7.672	29.152	42.961	46.030
120	0.000	5.754	22.248	35.289	38.358
125	0.000	3.452	16.494	28.001	31.454
130	0.000	2.301	11.891	21.864	24.933
135	0.000	1.151	8.822	17.261	19.563
140	0.000	1.151	6.137	13.425	15.343
145	0.000	0.000	3.836	8.439	10.740
150	0.000	0.000	2.685	6.137	7.672
155	0.000	0.000	1.918	3.069	4.987
160	0.000	0.000	0.767	2.301	2.685
165	0.000	0.000	0.000	0.767	1.151
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-2-L25-8TW-DIM-UNV 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	293.86	N.A.	11.70
0-30	622.09	N.A.	24.80
0-40	1013.78	N.A.	40.40
0-60	1762.39	N.A.	70.20
0-80	2228.34	N.A.	88.80
0-90	2345.45	N.A.	93.50
10-90	2269.37	N.A.	90.50
20-40	719.93	N.A.	28.70
20-50	1116.8	N.A.	44.50
40-70	1024.6	N.A.	40.80
60-80	465.95	N.A.	18.60
70-80	189.96	N.A.	7.60
80-90	117.11	N.A.	4.70
90-110	111.76	N.A.	4.50
90-120	137.38	N.A.	5.50
90-130	151.93	N.A.	6.10
90-150	162.31	N.A.	6.50
90-180	163.40	N.A.	6.50
110-180	51.64	N.A.	2.10
0-180	2508.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	76.08
10-20	217.78
20-30	328.24
30-40	391.69
40-50	396.88
50-60	351.73
60-70	275.99
70-80	189.96
80-90	117.11
90-100	69.73
100-110	42.03
110-120	25.62
120-130	14.54
130-140	7.35
140-150	3.04
150-160	0.95
160-170	0.14
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-2-L25-8TW-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	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-2-L25-8TW-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	19.3	20.8	19.8	21.3	21.7	21.6	23.1	22.1	23.6	24.1
	3H	20.8	22.1	21.2	22.6	23.1	23.8	25.1	24.3	25.6	26.1
	4H	21.2	22.5	21.7	23.0	23.5	24.8	26.1	25.3	26.6	27.1
	6H	21.5	22.7	22.0	23.2	23.8	25.8	27.0	26.3	27.5	28.0
	8H	21.6	22.7	22.1	23.3	23.8	26.3	27.4	26.8	28.0	28.5
	12H	21.7	22.7	22.2	23.3	23.8	26.8	27.9	27.4	28.4	29.0

UGR Viewed Endwise

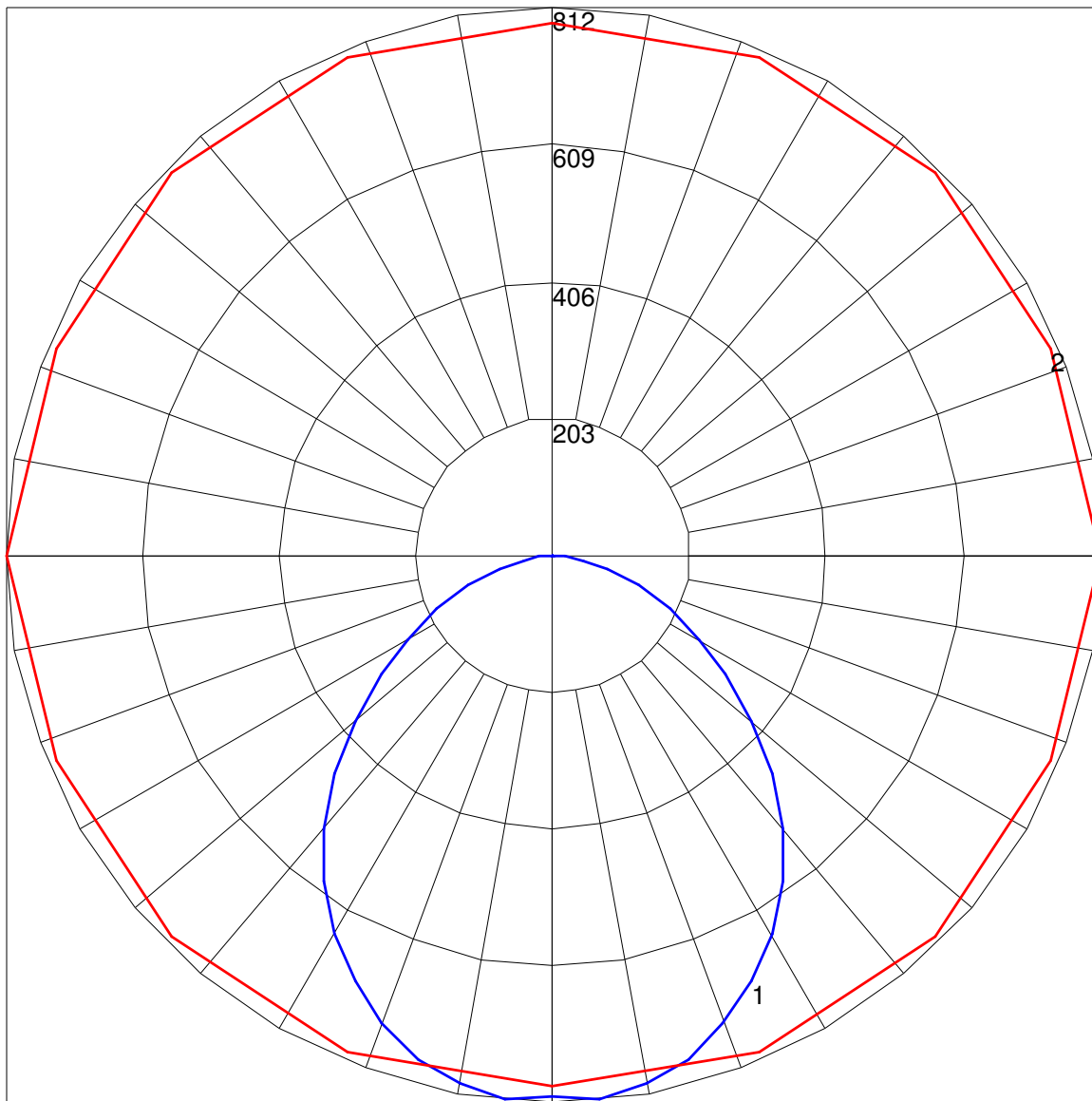
4H	2H	20.1	21.4	20.6	21.9	22.4	21.9	23.2	22.5	23.7	24.3
	3H	21.7	22.8	22.3	23.4	23.9	24.3	25.4	24.8	26.0	26.5
	4H	22.3	23.3	22.9	23.9	24.5	25.5	26.5	26.0	27.0	27.6
	6H	22.8	23.6	23.3	24.2	24.8	26.7	27.6	27.2	28.1	28.7
	8H	22.9	23.7	23.5	24.3	24.9	27.3	28.1	27.8	28.7	29.3
	12H	23.0	23.7	23.6	24.3	25.0	27.9	28.7	28.5	29.3	29.9

8H	4H	22.9	23.7	23.4	24.3	24.9	25.7	26.5	26.2	27.0	27.7
	6H	23.5	24.2	24.1	24.8	25.4	27.0	27.7	27.6	28.3	28.9
	8H	23.7	24.3	24.3	24.9	25.6	27.7	28.3	28.3	29.0	29.6
	12H	23.9	24.4	24.5	25.0	25.7	28.5	29.1	29.1	29.7	30.4

12H	4H	23.0	23.7	23.6	24.3	24.9	25.7	26.4	26.2	27.0	27.6
	6H	23.7	24.3	24.3	24.9	25.6	27.0	27.7	27.7	28.2	28.9
	8H	24.0	24.5	24.6	25.1	25.9	27.8	28.4	28.4	29.0	29.7

Maximum UGR = 30.4

POLAR GRAPH



Maximum Candela = 812.423 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.)