



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L53-8TW-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-L53-8TW-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	5360
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	33.74
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	18744	15849	15821
55	15470	13563	13928
65	12741	11392	11733
75	8609	9361	9614
85	5051	8040	7883

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L53-8TW-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	1716.740	1716.740	1716.740	1716.740	1716.740
5	1735.588	1710.185	1711.004	1706.907	1689.699
10	1706.907	1685.601	1689.699	1687.240	1671.671
15	1656.921	1641.351	1652.824	1657.740	1641.351
20	1581.532	1577.435	1597.101	1605.296	1595.462
25	1493.032	1498.768	1526.629	1545.476	1538.101
30	1391.420	1399.615	1447.143	1475.823	1474.184
35	1267.684	1282.434	1351.267	1391.420	1397.156
40	1135.753	1146.406	1233.267	1293.906	1307.837
45	980.058	1007.100	1107.072	1187.378	1207.045
50	818.627	862.058	984.155	1071.836	1096.419
55	663.752	720.293	857.960	949.738	984.975
60	534.279	586.724	736.682	828.460	865.336
65	410.543	467.904	623.599	707.182	739.141
70	287.626	364.654	516.251	589.182	620.321
75	177.000	275.334	417.098	485.932	512.974
80	98.334	190.112	332.695	396.612	413.820
85	41.792	131.111	265.501	320.404	331.876
90	5.736	90.139	205.681	254.028	269.598
95	0.819	61.458	164.709	201.584	217.973
100	0.000	40.153	127.834	164.709	177.820
105	0.000	28.681	99.153	134.389	145.042
110	0.000	19.667	76.209	109.806	118.820
115	0.000	16.389	62.278	91.778	98.334
120	0.000	12.292	47.528	75.389	81.945
125	0.000	7.375	35.236	59.820	67.195
130	0.000	4.917	25.403	46.708	53.264
135	0.000	2.458	18.847	36.875	41.792
140	0.000	2.458	13.111	28.681	32.778
145	0.000	0.000	8.194	18.028	22.945
150	0.000	0.000	5.736	13.111	16.389
155	0.000	0.000	4.097	6.556	10.653
160	0.000	0.000	1.639	4.917	5.736
165	0.000	0.000	0.000	1.639	2.458
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-L53-8TW-DIM-UNV 4000K_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	627.77	N.A.	11.70
0-30	1328.98	N.A.	24.80
0-40	2165.75	N.A.	40.40
0-60	3765.02	N.A.	70.20
0-80	4760.43	N.A.	88.80
0-90	5010.62	N.A.	93.50
10-90	4848.09	N.A.	90.50
20-40	1537.99	N.A.	28.70
20-50	2385.84	N.A.	44.50
40-70	2188.87	N.A.	40.80
60-80	995.42	N.A.	18.60
70-80	405.81	N.A.	7.60
80-90	250.18	N.A.	4.70
90-110	238.75	N.A.	4.50
90-120	293.49	N.A.	5.50
90-130	324.56	N.A.	6.10
90-150	346.74	N.A.	6.50
90-180	349.06	N.A.	6.50
110-180	110.31	N.A.	2.10
0-180	5359.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.53
10-20	465.24
20-30	701.22
30-40	836.77
40-50	847.85
50-60	751.41
60-70	589.61
70-80	405.81
80-90	250.18
90-100	148.96
100-110	89.79
110-120	54.74
120-130	31.07
130-140	15.70
140-150	6.48
150-160	2.03
160-170	0.30
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L53-8TW-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	168	168	168	168	163	163	163	163	154	154	154	145	145	145	138	138	138	134
1	152	144	138	131	147	140	134	128	132	127	123	125	121	117	118	115	112	108
2	138	125	115	106	133	122	112	104	115	107	100	109	102	97	103	98	93	89
3	125	110	98	88	121	107	96	87	101	92	84	96	88	81	91	84	79	75
4	115	97	84	74	111	95	83	73	90	80	71	85	77	69	81	74	68	64
5	106	87	74	64	102	85	72	63	81	70	62	77	67	60	73	65	59	55
6	97	78	65	56	94	76	64	55	73	62	54	69	60	53	66	58	52	48
7	90	71	58	49	87	69	57	49	66	56	48	63	54	47	61	52	46	43
8	84	65	52	44	81	63	52	44	61	50	43	58	49	42	56	47	41	38
9	79	59	47	40	76	58	47	39	56	46	38	54	44	38	51	43	37	34
10	74	55	43	36	71	54	43	36	52	42	35	50	41	34	48	40	34	31

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L53-8TW-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	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

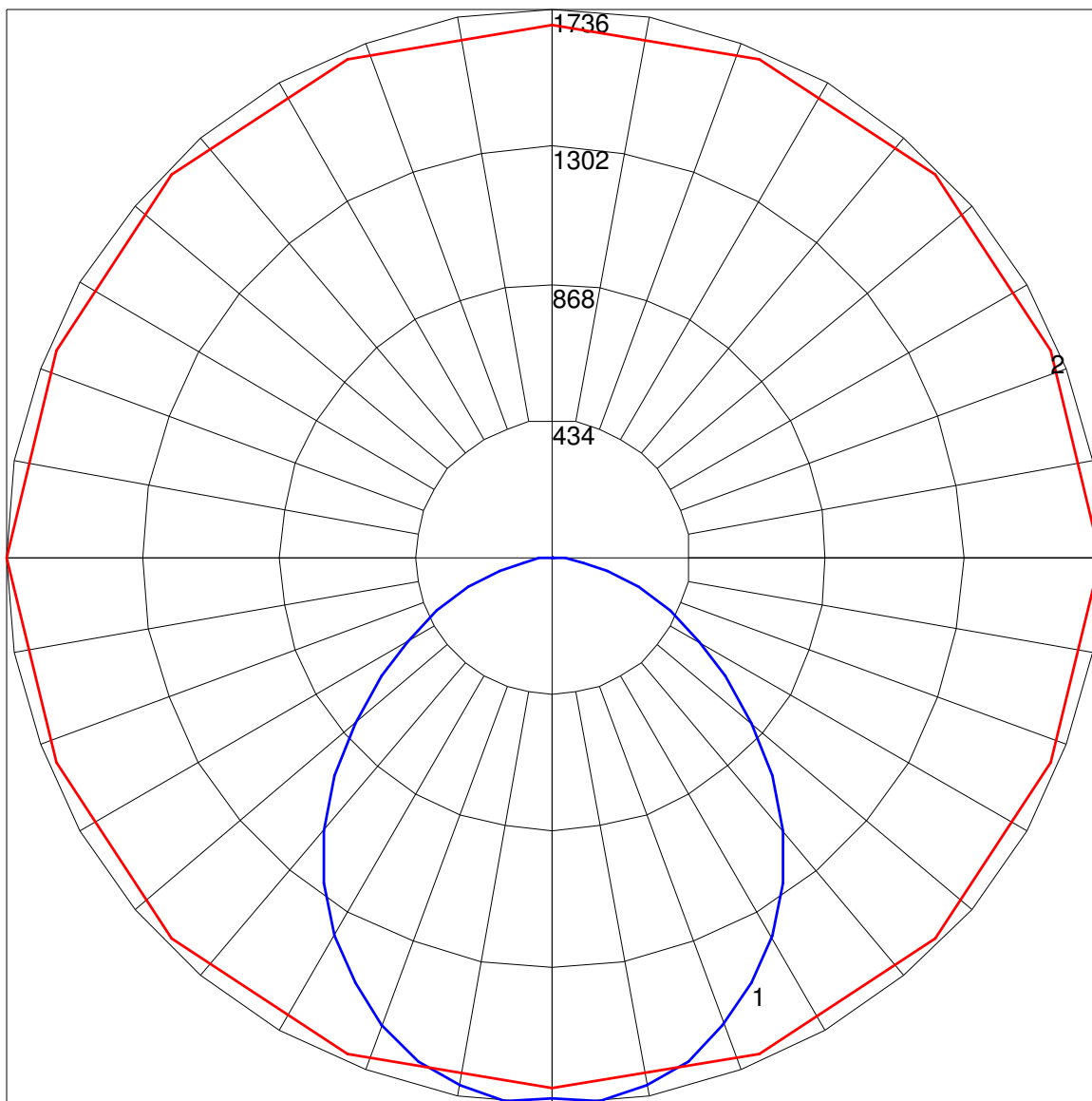
4H	2H	19.2	20.5	19.7	21.0	21.5	21.1	22.4	21.6	22.9	23.4
	3H	20.9	22.0	21.4	22.5	23.1	23.5	24.6	24.0	25.1	25.7
	4H	21.5	22.5	22.1	23.1	23.6	24.7	25.7	25.2	26.2	26.8
	6H	22.0	22.8	22.5	23.4	24.0	25.9	26.8	26.5	27.4	28.0
	8H	22.1	22.9	22.7	23.5	24.1	26.5	27.4	27.1	27.9	28.5
	12H	22.2	22.9	22.8	23.5	24.2	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 = 1735.588 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.)