



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L100-840-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] 04-01-2021

[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-L100-840-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	9929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	68.3
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	34723	29359	29307
55	28657	25125	25800
65	23602	21104	21735
75	15947	17341	17809
85	9358	14894	14603

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L100-840-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	3180.198	3180.198	3180.198	3180.198	3180.198
5	3215.111	3168.054	3169.572	3161.982	3130.104
10	3161.982	3122.514	3130.104	3125.550	3096.708
15	3069.384	3040.542	3061.794	3070.902	3040.542
20	2929.729	2922.139	2958.570	2973.750	2955.534
25	2765.785	2776.411	2828.023	2862.937	2849.275
30	2577.554	2592.734	2680.777	2733.907	2730.871
35	2348.337	2375.661	2503.172	2577.554	2588.180
40	2103.940	2123.674	2284.581	2396.913	2422.718
45	1815.521	1865.615	2050.810	2199.573	2236.005
50	1516.476	1596.930	1823.111	1985.536	2031.076
55	1229.575	1334.317	1589.340	1759.355	1824.629
60	989.732	1086.884	1364.677	1534.692	1603.002
65	760.515	866.775	1155.193	1310.029	1369.231
70	532.816	675.507	956.336	1091.438	1149.121
75	327.887	510.046	772.659	900.170	950.264
80	182.159	352.175	616.306	734.709	766.587
85	77.418	242.879	491.830	593.536	614.788
90	10.626	166.979	381.017	470.578	499.420
95	1.518	113.850	305.117	373.427	403.786
100	0.000	74.382	236.807	305.117	329.405
105	0.000	53.130	183.677	248.951	268.685
110	0.000	36.432	141.173	203.411	220.109
115	0.000	30.360	115.368	170.015	182.159
120	0.000	22.770	88.044	139.655	151.799
125	0.000	13.662	65.274	110.814	124.476
130	0.000	9.108	47.058	86.526	98.670
135	0.000	4.554	34.914	68.310	77.418
140	0.000	4.554	24.288	53.130	60.720
145	0.000	0.000	15.180	33.396	42.504
150	0.000	0.000	10.626	24.288	30.360
155	0.000	0.000	7.590	12.144	19.734
160	0.000	0.000	3.036	9.108	10.626
165	0.000	0.000	0.000	3.036	4.554
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-L100-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1162.91	N.A.	11.70
0-30	2461.89	N.A.	24.80
0-40	4011.97	N.A.	40.40
0-60	6974.55	N.A.	70.20
0-80	8818.52	N.A.	88.80
0-90	9281.98	N.A.	93.50
10-90	8980.9	N.A.	90.50
20-40	2849.06	N.A.	28.70
20-50	4419.68	N.A.	44.50
40-70	4054.8	N.A.	40.80
60-80	1843.97	N.A.	18.60
70-80	751.75	N.A.	7.60
80-90	463.46	N.A.	4.70
90-110	442.28	N.A.	4.50
90-120	543.68	N.A.	5.50
90-130	601.23	N.A.	6.10
90-150	642.33	N.A.	6.50
90-180	646.63	N.A.	6.50
110-180	204.35	N.A.	2.10
0-180	9928.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	301.08
10-20	861.83
20-30	1298.98
30-40	1550.08
40-50	1570.62
50-60	1391.96
60-70	1092.23
70-80	751.75
80-90	463.46
90-100	275.94
100-110	166.34
110-120	101.40
120-130	57.56
130-140	29.08
140-150	12.01
150-160	3.76
160-170	0.55
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L100-840-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-4-L100-840-DIM-UNV_.IES

UGR TABLE - CORRECTED

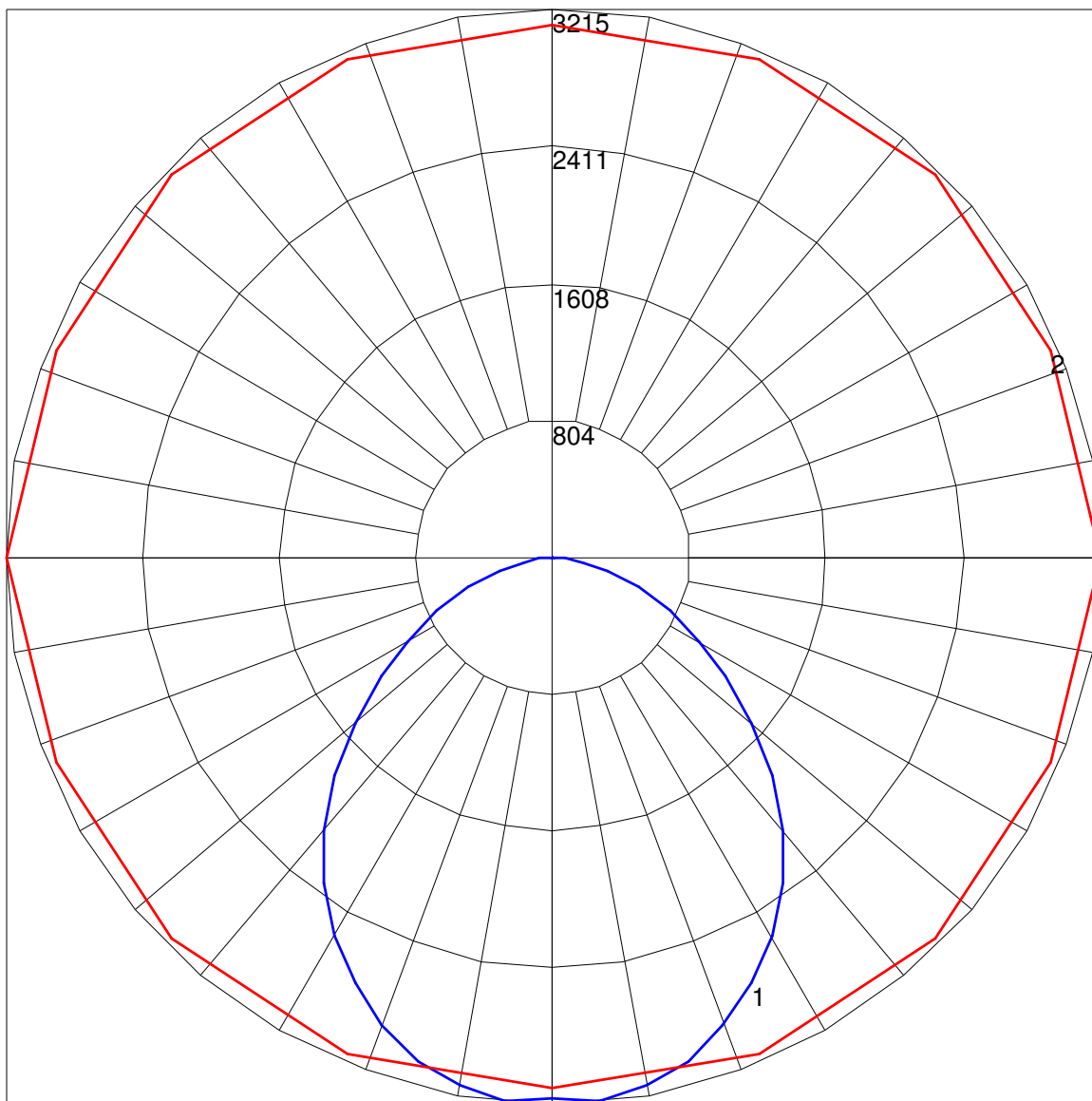
Reflectances

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	20.8	22.3	21.2	22.7	23.2	24.2	25.7	24.6	26.1	26.6
	3H	22.0	23.3	22.4	23.8	24.3	26.4	27.7	26.8	28.2	28.7
	4H	22.3	23.6	22.8	24.1	24.6	27.4	28.7	27.9	29.2	29.7
	6H	22.5	23.7	23.0	24.2	24.7	28.4	29.6	29.0	30.1	30.7
	8H	22.5	23.6	23.0	24.2	24.7	29.0	30.1	29.5	30.6	31.2
	12H	22.5	23.6	23.0	24.1	24.7	29.5	30.6	30.1	31.1	31.7
4H	2H	21.8	23.1	22.3	23.6	24.1	24.5	25.8	25.0	26.3	26.8
	3H	23.3	24.4	23.8	24.9	25.4	26.9	28.0	27.4	28.5	29.1
	4H	23.7	24.7	24.3	25.3	25.9	28.1	29.1	28.6	29.6	30.2
	6H	24.0	24.9	24.6	25.4	26.1	29.3	30.2	29.9	30.8	31.4
	8H	24.1	24.9	24.6	25.5	26.1	29.9	30.8	30.5	31.3	31.9
	12H	24.1	24.8	24.7	25.4	26.1	30.6	31.4	31.2	32.0	32.6
8H	4H	24.5	25.3	25.1	25.9	26.5	28.3	29.1	28.8	29.6	30.3
	6H	25.0	25.7	25.6	26.3	26.9	29.6	30.3	30.2	30.9	31.5
	8H	25.1	25.7	25.7	26.4	27.0	30.4	31.0	31.0	31.6	32.3
	12H	25.2	25.8	25.8	26.4	27.1	31.2	31.8	31.8	32.4	33.1
12H	4H	24.7	25.4	25.3	26.0	26.7	28.2	29.0	28.8	29.6	30.2
	6H	25.3	25.9	25.9	26.5	27.2	29.7	30.3	30.3	30.9	31.6
	8H	25.5	26.1	26.1	26.7	27.4	30.4	31.0	31.1	31.6	32.3

Maximum UGR = 33.1

POLAR GRAPH



Maximum Candela = 3215.111 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.)