



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-835-(L61)-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] 12-08-2021

[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-L65-835-(L61)-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	6184
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	41.5
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	21626	18285	18253
55	17848	15648	16069
65	14699	13144	13537
75	9932	10800	11092
85	5828	9276	9095

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1980.657	1980.657	1980.657	1980.657	1980.657
5	2002.402	1973.094	1974.040	1969.312	1949.459
10	1969.312	1944.731	1949.459	1946.622	1928.659
15	1911.642	1893.679	1906.915	1912.587	1893.679
20	1824.663	1819.936	1842.626	1852.080	1840.735
25	1722.557	1729.175	1761.320	1783.064	1774.556
30	1605.325	1614.779	1669.614	1702.704	1700.813
35	1462.567	1479.584	1559.000	1605.325	1611.943
40	1310.354	1322.644	1422.859	1492.820	1508.892
45	1130.724	1161.923	1277.264	1369.915	1392.605
50	944.476	994.583	1135.451	1236.611	1264.974
55	765.791	831.025	989.856	1095.743	1136.396
60	616.415	676.922	849.934	955.821	998.365
65	473.656	539.836	719.466	815.899	852.770
70	331.843	420.712	595.615	679.758	715.684
75	204.211	317.662	481.219	560.635	591.834
80	113.451	219.338	383.841	457.584	477.438
85	48.216	151.267	306.316	369.660	382.896
90	6.618	103.996	237.301	293.081	311.044
95	0.945	70.907	190.030	232.574	251.482
100	0.000	46.326	147.486	190.030	205.156
105	0.000	33.090	114.396	155.049	167.340
110	0.000	22.690	87.924	126.686	137.086
115	0.000	18.908	71.852	105.887	113.451
120	0.000	14.181	54.834	86.979	94.542
125	0.000	8.509	40.653	69.016	77.525
130	0.000	5.673	29.308	53.889	61.452
135	0.000	2.836	21.745	42.544	48.216
140	0.000	2.836	15.127	33.090	37.817
145	0.000	0.000	9.454	20.799	26.472
150	0.000	0.000	6.618	15.127	18.908
155	0.000	0.000	4.727	7.563	12.290
160	0.000	0.000	1.891	5.673	6.618
165	0.000	0.000	0.000	1.891	2.836
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

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	724.27	N.A.	11.70
0-30	1533.29	N.A.	24.80
0-40	2498.7	N.A.	40.40
0-60	4343.82	N.A.	70.20
0-80	5492.26	N.A.	88.80
0-90	5780.91	N.A.	93.50
10-90	5593.39	N.A.	90.50
20-40	1774.42	N.A.	28.70
20-50	2752.62	N.A.	44.50
40-70	2525.37	N.A.	40.80
60-80	1148.44	N.A.	18.60
70-80	468.19	N.A.	7.60
80-90	288.65	N.A.	4.70
90-110	275.45	N.A.	4.50
90-120	338.61	N.A.	5.50
90-130	374.45	N.A.	6.10
90-150	400.05	N.A.	6.50
90-180	402.73	N.A.	6.50
110-180	127.27	N.A.	2.10
0-180	6183.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.52
10-20	536.76
20-30	809.02
30-40	965.41
40-50	978.20
50-60	866.92
60-70	680.25
70-80	468.19
80-90	288.65
90-100	171.86
100-110	103.60
110-120	63.15
120-130	35.85
130-140	18.11
140-150	7.48
150-160	2.34
160-170	0.34
170-180	0.00

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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

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UGR TABLE - CORRECTED

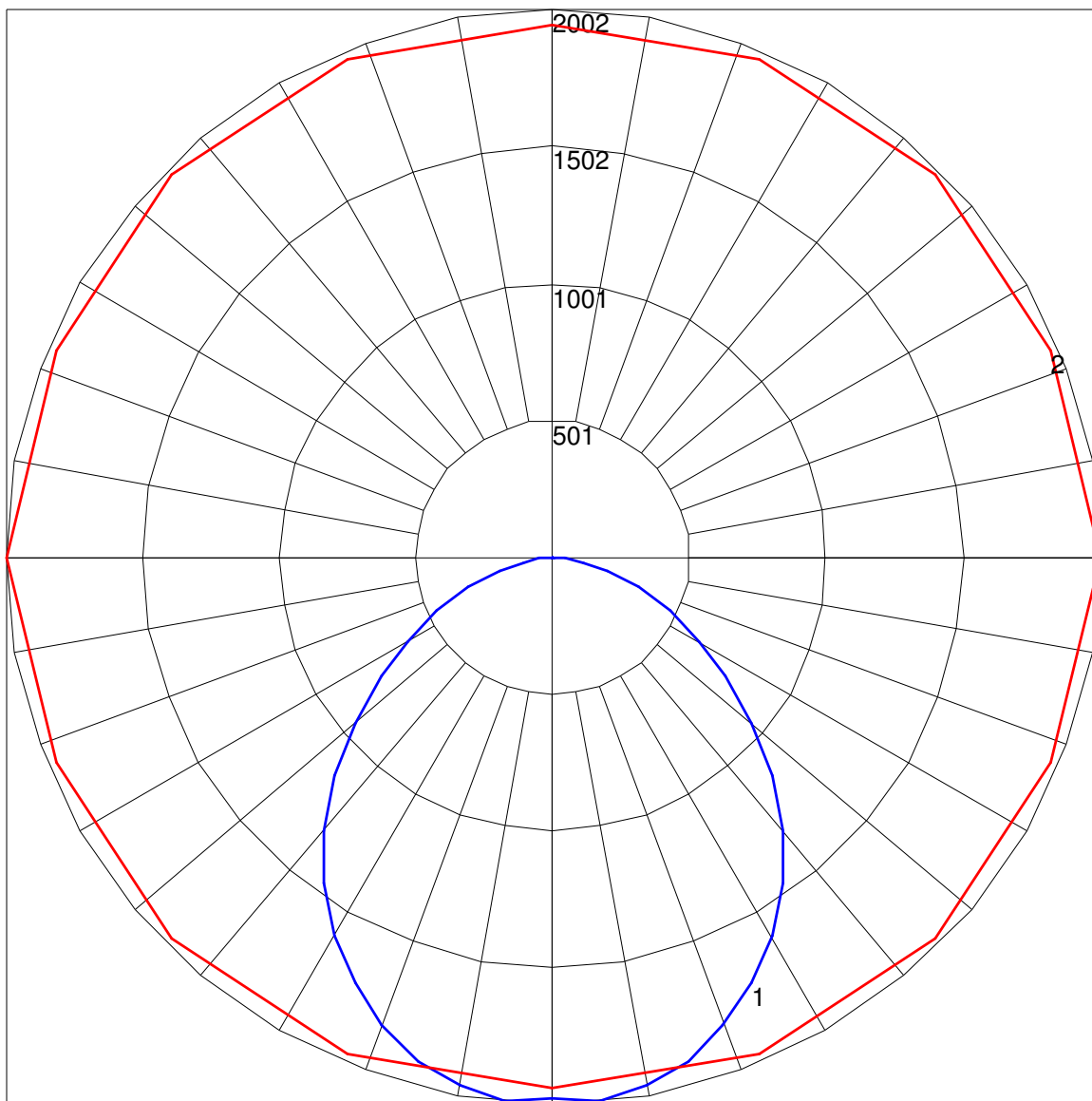
Reflectances

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	19.1	20.6	19.5	21.0	21.5	22.5	24.0	22.9	24.4	24.9
	3H	20.3	21.6	20.7	22.1	22.6	24.7	26.0	25.1	26.5	27.0
	4H	20.6	21.9	21.1	22.4	22.9	25.7	27.0	26.2	27.5	28.0
	6H	20.8	22.0	21.3	22.5	23.0	26.7	27.9	27.3	28.4	29.0
	8H	20.8	21.9	21.3	22.5	23.0	27.3	28.4	27.8	28.9	29.5
	12H	20.8	21.9	21.3	22.4	23.0	27.8	28.9	28.4	29.4	30.0
4H	2H	20.1	21.4	20.6	21.9	22.4	22.8	24.1	23.3	24.6	25.1
	3H	21.6	22.7	22.1	23.2	23.7	25.2	26.3	25.7	26.8	27.4
	4H	22.0	23.0	22.6	23.6	24.2	26.4	27.4	26.9	27.9	28.5
	6H	22.3	23.2	22.9	23.7	24.4	27.6	28.5	28.2	29.1	29.7
	8H	22.4	23.2	22.9	23.8	24.4	28.2	29.1	28.8	29.6	30.2
	12H	22.4	23.1	23.0	23.7	24.4	28.9	29.7	29.5	30.3	30.9
8H	4H	22.8	23.6	23.4	24.2	24.8	26.6	27.4	27.1	27.9	28.6
	6H	23.3	24.0	23.9	24.6	25.2	27.9	28.6	28.5	29.2	29.8
	8H	23.4	24.0	24.0	24.7	25.3	28.7	29.3	29.3	29.9	30.6
	12H	23.5	24.1	24.1	24.7	25.4	29.5	30.1	30.1	30.7	31.4
12H	4H	23.0	23.7	23.6	24.3	25.0	26.5	27.3	27.1	27.9	28.5
	6H	23.6	24.2	24.2	24.8	25.5	28.0	28.6	28.6	29.2	29.9
	8H	23.8	24.4	24.4	25.0	25.7	28.7	29.3	29.4	29.9	30.6

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 2002.402 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.)