



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-840-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] 12-10-2021

[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-L65-840-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	6173
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	42.3
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	21590	18255	18223
55	17818	15622	16042
65	14675	13122	13514
75	9916	10782	11073
85	5818	9261	9080

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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	1977.397	1977.397	1977.397	1977.397	1977.397
5	1999.106	1969.846	1970.790	1966.071	1946.249
10	1966.071	1941.530	1946.249	1943.418	1925.484
15	1908.495	1890.561	1903.775	1909.439	1890.561
20	1821.659	1816.940	1839.593	1849.031	1837.705
25	1719.722	1726.329	1758.420	1780.129	1771.634
30	1602.683	1612.121	1666.865	1699.901	1698.013
35	1460.159	1477.149	1556.433	1602.683	1609.290
40	1308.197	1320.467	1420.517	1490.363	1506.408
45	1128.862	1160.010	1275.161	1367.660	1390.313
50	942.921	992.946	1133.582	1234.575	1262.891
55	764.531	829.657	988.227	1093.939	1134.526
60	615.400	675.807	848.535	954.247	996.721
65	472.876	538.947	718.281	814.555	851.366
70	331.297	420.020	594.635	678.639	714.506
75	203.875	317.139	480.427	559.712	590.859
80	113.264	218.977	383.209	456.831	476.652
85	48.137	151.018	305.812	369.051	382.265
90	6.607	103.825	236.910	292.598	310.532
95	0.944	70.790	189.717	232.191	251.068
100	0.000	46.249	147.243	189.717	204.819
105	0.000	33.035	114.208	154.794	167.064
110	0.000	22.653	87.779	126.478	136.860
115	0.000	18.877	71.734	105.713	113.264
120	0.000	14.158	54.744	86.836	94.386
125	0.000	8.495	40.586	68.902	77.397
130	0.000	5.663	29.260	53.800	61.351
135	0.000	2.832	21.709	42.474	48.137
140	0.000	2.832	15.102	33.035	37.755
145	0.000	0.000	9.439	20.765	26.428
150	0.000	0.000	6.607	15.102	18.877
155	0.000	0.000	4.719	7.551	12.270
160	0.000	0.000	1.888	5.663	6.607
165	0.000	0.000	0.000	1.888	2.832
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	723.08	N.A.	11.70
0-30	1530.77	N.A.	24.80
0-40	2494.58	N.A.	40.40
0-60	4336.67	N.A.	70.20
0-80	5483.22	N.A.	88.80
0-90	5771.39	N.A.	93.50
10-90	5584.18	N.A.	90.50
20-40	1771.5	N.A.	28.70
20-50	2748.09	N.A.	44.50
40-70	2521.21	N.A.	40.80
60-80	1146.55	N.A.	18.60
70-80	467.42	N.A.	7.60
80-90	288.17	N.A.	4.70
90-110	275.00	N.A.	4.50
90-120	338.05	N.A.	5.50
90-130	373.84	N.A.	6.10
90-150	399.39	N.A.	6.50
90-180	402.06	N.A.	6.50
110-180	127.06	N.A.	2.10
0-180	6173.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.21
10-20	535.87
20-30	807.68
30-40	963.82
40-50	976.59
50-60	865.50
60-70	679.13
70-80	467.42
80-90	288.17
90-100	171.58
100-110	103.42
110-120	63.05
120-130	35.79
130-140	18.08
140-150	7.47
150-160	2.33
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	118	118	118	118	114	114	114	114	108	108	108	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	61	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	49	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

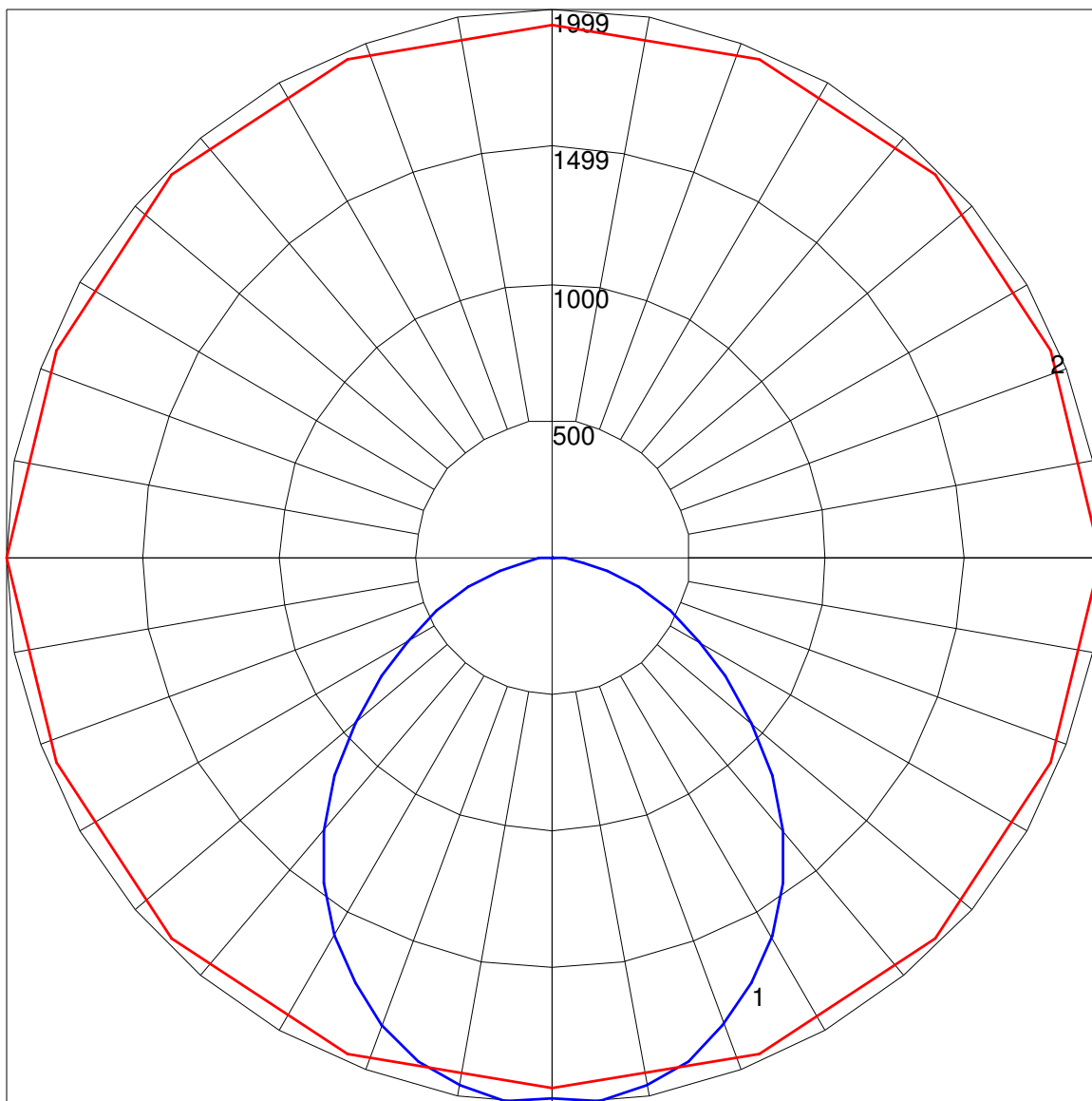
Reflectances

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 = 1999.106 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.)