



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-835-(L20)-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] 07/31/2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L30-835-(L20)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[_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	1963
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	12.8
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	6865	5804	5794
55	5665	4967	5101
65	4666	4172	4297
75	3153	3428	3521
85	1850	2945	2887

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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	628.724	628.724	628.724	628.724	628.724
5	635.627	626.323	626.623	625.123	618.821
10	625.123	617.320	618.821	617.920	612.218
15	606.816	601.114	605.316	607.116	601.114
20	579.207	577.706	584.909	587.910	584.308
25	546.795	548.896	559.099	566.002	563.301
30	509.582	512.583	529.989	540.493	539.892
35	464.266	469.667	494.876	509.582	511.682
40	415.948	419.850	451.661	473.869	478.971
45	358.928	368.832	405.445	434.855	442.058
50	299.807	315.713	360.429	392.540	401.543
55	243.087	263.794	314.212	347.824	360.729
60	195.670	214.877	269.796	303.408	316.913
65	150.354	171.361	228.381	258.992	270.697
70	105.338	133.548	189.067	215.777	227.181
75	64.823	100.836	152.754	177.963	187.867
80	36.013	69.625	121.843	145.252	151.554
85	15.305	48.017	97.235	117.342	121.543
90	2.101	33.012	75.327	93.033	98.735
95	0.300	22.508	60.322	73.826	79.828
100	0.000	14.705	46.817	60.322	65.123
105	0.000	10.504	36.313	49.218	53.119
110	0.000	7.203	27.910	40.214	43.516
115	0.000	6.002	22.808	33.612	36.013
120	0.000	4.502	17.406	27.610	30.011
125	0.000	2.701	12.905	21.908	24.609
130	0.000	1.801	9.303	17.106	19.507
135	0.000	0.900	6.902	13.505	15.305
140	0.000	0.900	4.802	10.504	12.004
145	0.000	0.000	3.001	6.602	8.403
150	0.000	0.000	2.101	4.802	6.002
155	0.000	0.000	1.501	2.401	3.901
160	0.000	0.000	0.600	1.801	2.101
165	0.000	0.000	0.000	0.600	0.900
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	229.91	N.A.	11.70
0-30	486.72	N.A.	24.80
0-40	793.17	N.A.	40.40
0-60	1378.87	N.A.	70.20
0-80	1743.42	N.A.	88.80
0-90	1835.05	N.A.	93.50
10-90	1775.52	N.A.	90.50
20-40	563.26	N.A.	28.70
20-50	873.77	N.A.	44.50
40-70	801.63	N.A.	40.80
60-80	364.55	N.A.	18.60
70-80	148.62	N.A.	7.60
80-90	91.63	N.A.	4.70
90-110	87.44	N.A.	4.50
90-120	107.48	N.A.	5.50
90-130	118.86	N.A.	6.10
90-150	126.99	N.A.	6.50
90-180	127.84	N.A.	6.50
110-180	40.40	N.A.	2.10
0-180	1962.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.52
10-20	170.38
20-30	256.81
30-40	306.45
40-50	310.51
50-60	275.19
60-70	215.93
70-80	148.62
80-90	91.63
90-100	54.55
100-110	32.88
110-120	20.05
120-130	11.38
130-140	5.75
140-150	2.37
150-160	0.74
160-170	0.11
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

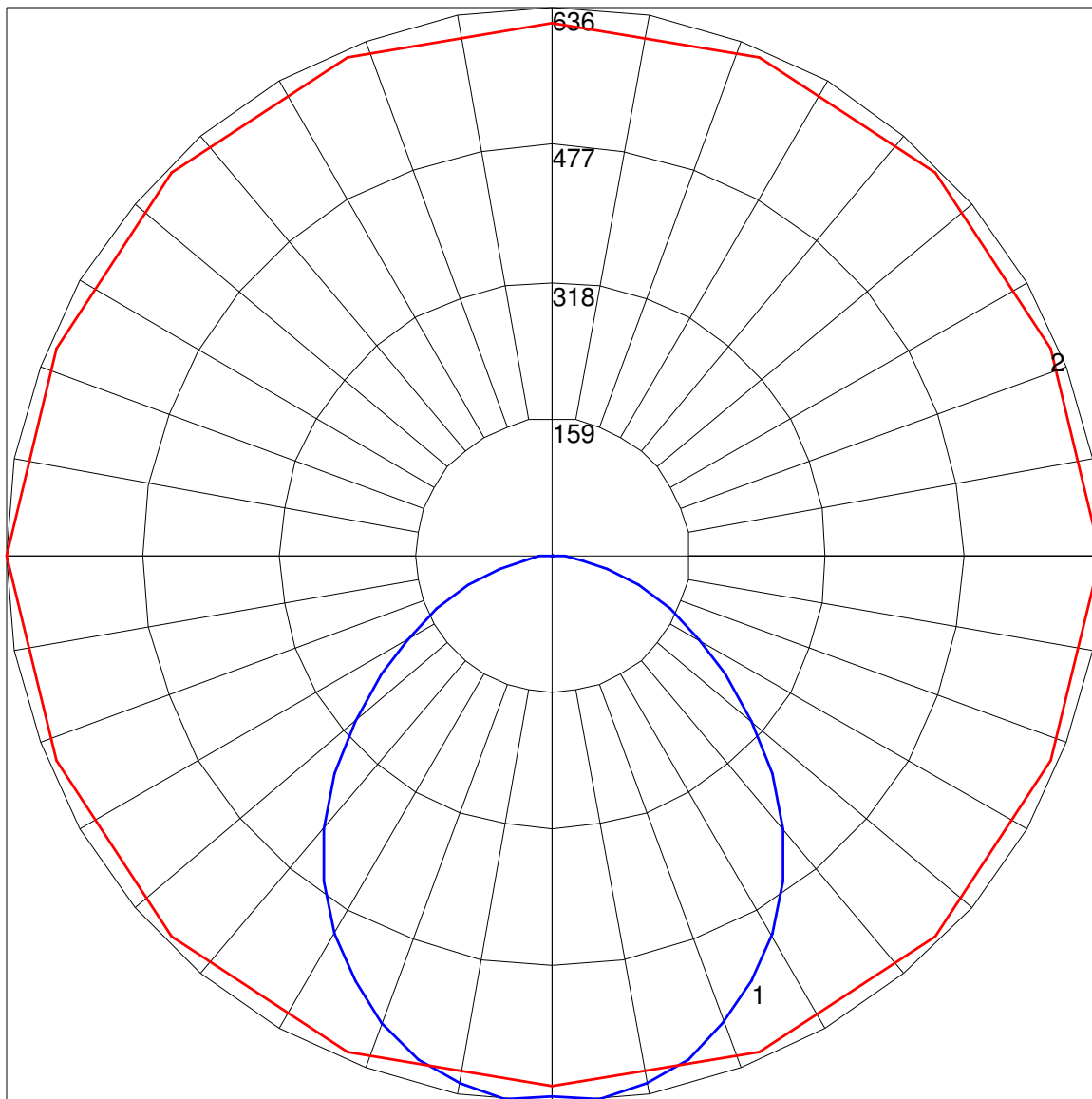
Reflectances

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	15.1	16.6	15.5	17.0	17.5	18.5	20.0	18.9	20.4	20.9
	3H	16.3	17.6	16.7	18.1	18.6	20.7	22.0	21.1	22.5	23.0
	4H	16.6	17.9	17.1	18.4	18.9	21.7	23.0	22.2	23.5	24.0
	6H	16.8	18.0	17.3	18.5	19.0	22.7	23.9	23.3	24.4	25.0
	8H	16.8	17.9	17.3	18.5	19.0	23.3	24.4	23.8	24.9	25.5
	12H	16.8	17.9	17.3	18.4	19.0	23.8	24.9	24.4	25.4	26.0
4H	2H	16.1	17.4	16.6	17.9	18.4	18.8	20.1	19.3	20.5	21.1
	3H	17.6	18.7	18.1	19.2	19.7	21.2	22.3	21.7	22.8	23.4
	4H	18.0	19.0	18.6	19.6	20.2	22.4	23.4	22.9	23.9	24.5
	6H	18.3	19.2	18.9	19.7	20.4	23.6	24.5	24.2	25.1	25.7
	8H	18.4	19.2	18.9	19.8	20.4	24.2	25.1	24.8	25.6	26.2
	12H	18.4	19.1	19.0	19.7	20.4	24.9	25.7	25.5	26.3	26.9
8H	4H	18.8	19.6	19.4	20.2	20.8	22.6	23.4	23.1	23.9	24.6
	6H	19.3	20.0	19.9	20.6	21.2	23.9	24.6	24.5	25.2	25.8
	8H	19.4	20.0	20.0	20.7	21.3	24.7	25.3	25.3	25.9	26.6
	12H	19.5	20.1	20.1	20.7	21.4	25.5	26.1	26.1	26.7	27.4
12H	4H	19.0	19.7	19.6	20.3	21.0	22.5	23.3	23.1	23.9	24.5
	6H	19.6	20.2	20.2	20.8	21.5	24.0	24.6	24.6	25.2	25.8
	8H	19.8	20.4	20.4	21.0	21.7	24.7	25.3	25.4	25.9	26.6

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 635.627 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.)