



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-835-AF-(L36)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20112.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 26-AUG-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' NARROW LOW PROFILE LED WRAP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED PRISMATIC ACRYLIC DIFFUSER

[LUMCAT] 17-4-L55-835-AF-(L36)-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Industrial, Manufacturing, Office, Direct

[_SEARCH_MOUNTING] Pendant, Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.15 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3258	3035	3090
55	2697	2580	2697
65	2111	2093	2258
75	1585	1609	1876
85	768	1054	1489

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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	1299.086	1299.086	1299.086	1299.086	1299.086
5	1313.870	1297.158	1286.873	1283.659	1281.731
10	1293.301	1276.588	1266.947	1265.018	1259.233
15	1263.090	1248.306	1238.664	1236.735	1232.878
20	1217.451	1202.667	1193.668	1199.453	1192.382
25	1158.314	1148.030	1138.388	1148.030	1141.602
30	1085.679	1079.251	1071.537	1081.822	1081.179
35	996.973	999.544	989.260	1007.901	1011.115
40	890.912	895.412	893.483	918.552	926.266
45	777.138	783.566	798.993	816.991	829.847
50	652.436	660.149	692.932	707.073	723.786
55	529.662	539.304	580.443	604.226	623.510
60	415.245	429.386	474.382	498.808	523.234
65	313.041	332.967	376.677	402.389	421.673
70	226.263	246.833	287.329	317.540	331.682
75	151.699	169.055	208.265	244.904	256.475
80	87.420	105.418	140.772	176.768	187.696
85	30.854	48.210	79.064	120.202	122.774
90	0.000	14.784	43.710	75.850	83.563
95	0.000	14.784	42.424	69.422	79.064
100	0.000	15.427	41.782	66.208	73.921
105	0.000	14.784	41.139	61.708	68.779
110	0.000	16.713	39.853	59.137	64.922
115	0.000	15.427	37.925	55.923	61.708
120	0.000	17.355	35.996	51.424	57.209
125	0.000	15.427	32.782	46.924	52.066
130	0.000	14.784	28.926	41.139	46.281
135	0.000	14.141	26.997	36.639	40.496
140	0.000	13.499	23.783	32.782	36.639
145	0.000	0.000	20.569	29.569	32.140
150	0.000	0.000	18.641	23.783	27.640
155	0.000	0.000	16.713	21.855	20.569
160	0.000	0.000	14.784	17.998	17.998
165	0.000	0.000	0.000	14.141	16.713
170	0.000	0.000	0.000	0.000	14.141
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	473.12	N.A.	13.00
0-30	1000.79	N.A.	27.60
0-40	1624.67	N.A.	44.80
0-60	2756.51	N.A.	76.00
0-80	3346.06	N.A.	92.30
0-90	3440.42	N.A.	94.90
10-90	3317.78	N.A.	91.50
20-40	1151.55	N.A.	31.80
20-50	1767.84	N.A.	48.80
40-70	1500.74	N.A.	41.40
60-80	589.54	N.A.	16.30
70-80	220.65	N.A.	6.10
80-90	94.36	N.A.	2.60
90-110	86.13	N.A.	2.40
90-120	121.00	N.A.	3.30
90-130	148.16	N.A.	4.10
90-150	178.16	N.A.	4.90
90-180	185.68	N.A.	5.10
110-180	99.56	N.A.	2.70
0-180	3626.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	122.64
10-20	350.48
20-30	527.67
30-40	623.88
40-50	616.29
50-60	515.55
60-70	368.89
70-80	220.65
80-90	94.36
90-100	45.61
100-110	40.51
110-120	34.87
120-130	27.17
130-140	19.04
140-150	10.96
150-160	5.70
160-170	1.76
170-180	0.06

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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	103	103	103	97	97	97	95
1	108	103	99	95	104	100	96	93	95	92	89	90	88	85	86	84	82	79
2	98	90	83	78	95	88	81	76	83	78	74	79	75	71	75	72	69	67
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	70	62	55	79	69	61	55	66	59	53	63	57	52	60	55	51	48
5	76	63	54	48	73	62	53	47	59	52	46	56	50	45	54	49	44	42
6	70	57	48	42	68	56	47	41	53	46	41	51	45	40	49	44	39	37
7	65	52	43	37	63	51	42	37	49	41	36	47	40	35	45	39	35	33
8	60	47	39	33	59	46	38	33	45	37	32	43	37	32	41	36	31	29
9	57	43	35	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	32	27	51	39	32	27	38	31	27	37	31	26	36	30	26	24

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UGR TABLE - CORRECTED

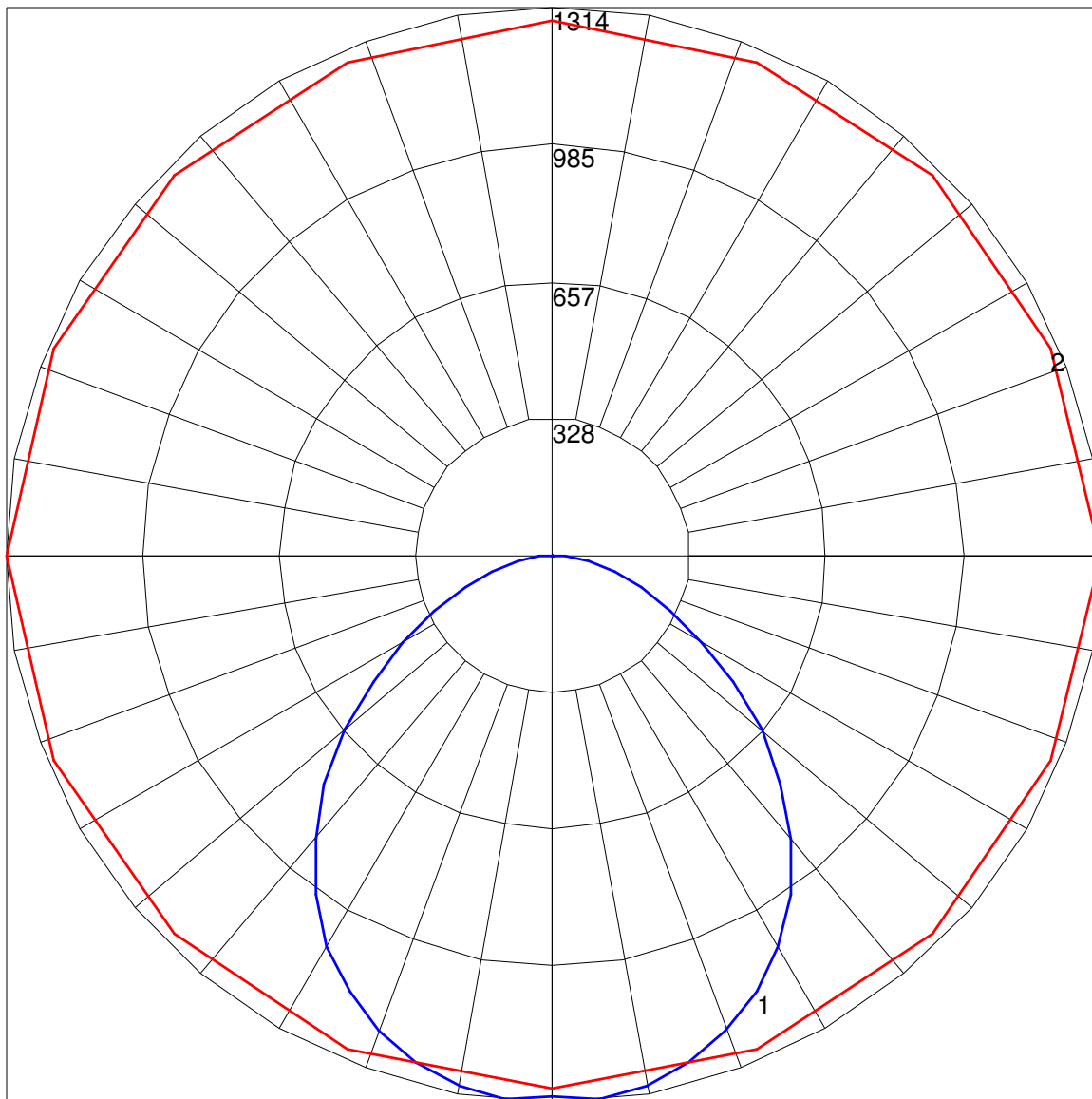
Reflectances

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	14.0	15.5	14.4	15.9	16.3	15.4	16.9	15.8	17.3	17.7
	3H	15.3	16.6	15.7	17.1	17.5	17.2	18.5	17.6	18.9	19.4
	4H	15.7	17.0	16.2	17.4	17.9	17.9	19.2	18.4	19.7	20.2
	6H	15.9	17.1	16.4	17.6	18.1	18.7	19.8	19.1	20.3	20.8
	8H	16.0	17.1	16.5	17.6	18.1	19.0	20.1	19.5	20.6	21.1
	12H	16.0	17.1	16.5	17.6	18.1	19.3	20.3	19.8	20.8	21.4
4H	2H	14.7	15.9	15.1	16.4	16.9	15.8	17.0	16.3	17.5	18.0
	3H	16.2	17.2	16.7	17.7	18.3	17.8	18.9	18.3	19.4	19.9
	4H	16.7	17.6	17.2	18.2	18.7	18.7	19.7	19.2	20.2	20.7
	6H	17.0	17.9	17.6	18.4	19.0	19.6	20.4	20.1	21.0	21.5
	8H	17.1	17.9	17.7	18.4	19.0	20.0	20.8	20.5	21.3	21.9
	12H	17.2	17.9	17.7	18.4	19.0	20.4	21.1	20.9	21.7	22.2
8H	4H	17.1	17.9	17.6	18.4	19.0	18.9	19.7	19.4	20.2	20.8
	6H	17.5	18.2	18.1	18.8	19.4	19.9	20.6	20.5	21.1	21.7
	8H	17.7	18.3	18.3	18.9	19.5	20.4	21.0	21.0	21.6	22.2
	12H	17.8	18.3	18.3	18.9	19.5	20.9	21.5	21.5	22.0	22.7
12H	4H	17.2	17.9	17.7	18.4	19.0	18.9	19.6	19.5	20.2	20.8
	6H	17.7	18.3	18.3	18.8	19.5	19.9	20.5	20.5	21.1	21.7
	8H	17.9	18.4	18.4	19.0	19.6	20.5	21.0	21.1	21.6	22.3

Maximum UGR = 22.7

POLAR GRAPH



Maximum Candela = 1313.87 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.)