

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 17-4-L55-930-AF-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

[ISSUE DATE] 01-09-2025

[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-L55-930-AF-DIM-UNV

[LAMPCAT] HLM 90 CRI 3000K CCT

[_SEARCH_SOURCE TYPE] 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	4595
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	40.75
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	4129	3846	3916
55	3417	3269	3418
65	2675	2652	2861
75	2009	2039	2378
85	973	1336	1887

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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	1646.250	1646.250	1646.250	1646.250	1646.250
5	1664.985	1643.806	1630.773	1626.700	1624.256
10	1638.919	1617.740	1605.521	1603.078	1595.746
15	1600.634	1581.899	1569.680	1567.236	1562.349
20	1542.799	1524.064	1512.660	1519.991	1511.031
25	1467.859	1454.825	1442.607	1454.825	1446.680
30	1375.812	1367.666	1357.891	1370.925	1370.110
35	1263.401	1266.659	1253.626	1277.249	1281.322
40	1128.997	1134.699	1132.255	1164.023	1173.798
45	984.817	992.963	1012.513	1035.321	1051.612
50	826.790	836.565	878.109	896.029	917.208
55	671.207	683.426	735.558	765.698	790.135
60	526.213	544.134	601.154	632.108	663.062
65	396.697	421.948	477.339	509.922	534.359
70	286.729	312.796	364.114	402.399	420.319
75	192.239	214.232	263.921	310.352	325.014
80	110.782	133.590	178.391	224.007	237.855
85	39.099	61.093	100.192	152.325	155.583
90	0.000	18.735	55.391	96.119	105.894
95	0.000	18.735	53.762	87.974	100.192
100	0.000	19.550	52.947	83.901	93.676
105	0.000	18.735	52.133	78.199	87.159
110	0.000	21.179	50.503	74.941	82.272
115	0.000	19.550	48.060	70.868	78.199
120	0.000	21.993	45.616	65.166	72.497
125	0.000	19.550	41.543	59.464	65.980
130	0.000	18.735	36.656	52.133	58.649
135	0.000	17.921	34.212	46.431	51.318
140	0.000	17.106	30.139	41.543	46.431
145	0.000	0.000	26.066	37.470	40.729
150	0.000	0.000	23.623	30.139	35.027
155	0.000	0.000	21.179	27.695	26.066
160	0.000	0.000	18.735	22.808	22.808
165	0.000	0.000	0.000	17.921	21.179
170	0.000	0.000	0.000	0.000	17.921
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	599.56	N.A.	13.00
0-30	1268.24	N.A.	27.60
0-40	2058.84	N.A.	44.80
0-60	3493.15	N.A.	76.00
0-80	4240.24	N.A.	92.30
0-90	4359.82	N.A.	94.90
10-90	4204.41	N.A.	91.50
20-40	1459.28	N.A.	31.80
20-50	2240.27	N.A.	48.80
40-70	1901.79	N.A.	41.40
60-80	747.09	N.A.	16.30
70-80	279.62	N.A.	6.10
80-90	119.58	N.A.	2.60
90-110	109.14	N.A.	2.40
90-120	153.33	N.A.	3.30
90-130	187.76	N.A.	4.10
90-150	225.77	N.A.	4.90
90-180	235.30	N.A.	5.10
110-180	126.16	N.A.	2.70
0-180	4595.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	155.41
10-20	444.14
20-30	668.68
30-40	790.60
40-50	780.98
50-60	653.33
60-70	467.47
70-80	279.62
80-90	119.58
90-100	57.80
100-110	51.34
110-120	44.19
120-130	34.43
130-140	24.12
140-150	13.88
150-160	7.23
160-170	2.23
170-180	0.08

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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

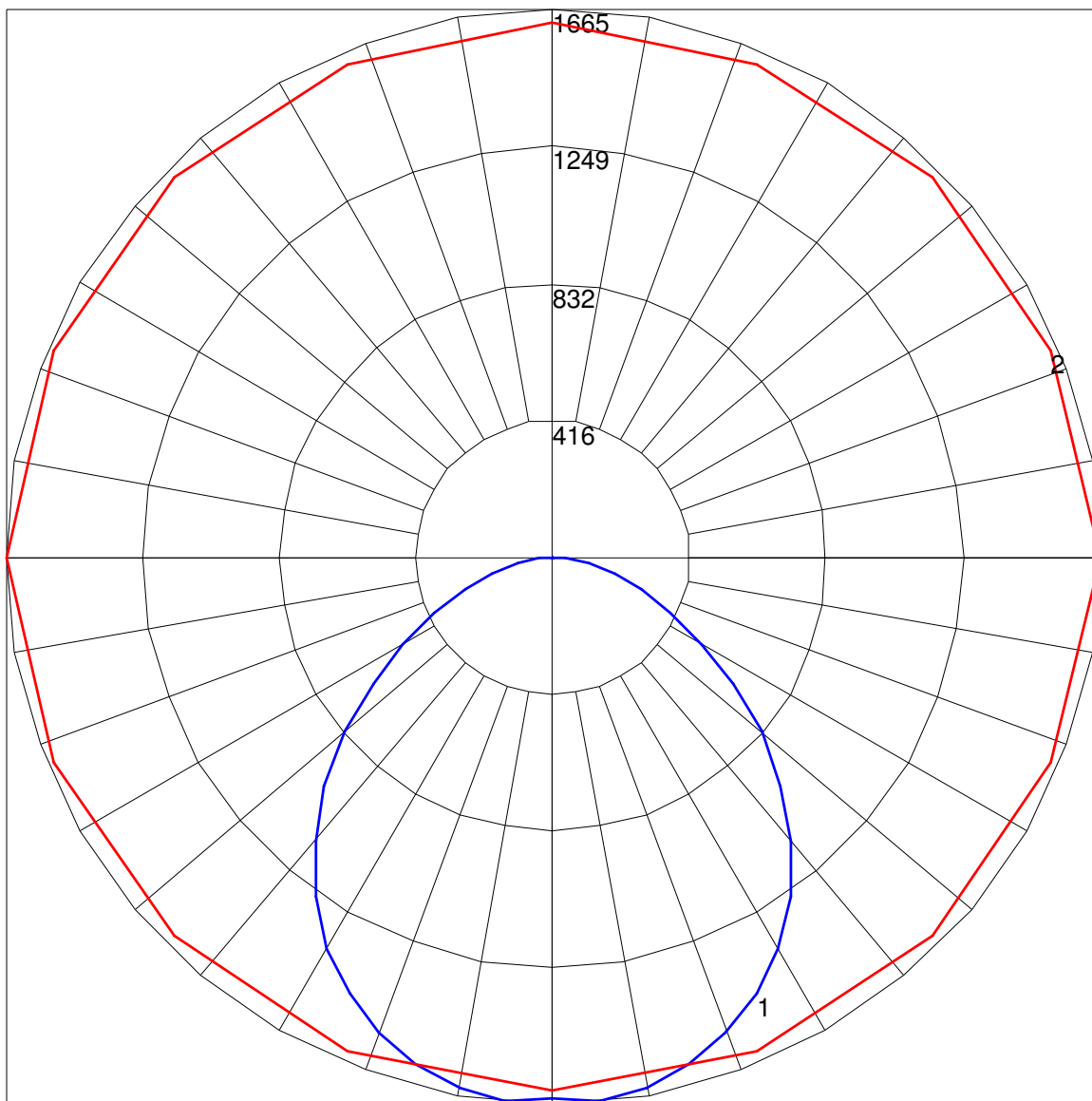
Reflectances

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	14.8	16.3	15.2	16.7	17.1	16.2	17.7	16.6	18.1	18.5
	3H	16.1	17.4	16.5	17.9	18.3	18.0	19.3	18.4	19.7	20.2
	4H	16.5	17.8	17.0	18.2	18.7	18.7	20.0	19.2	20.5	21.0
	6H	16.7	17.9	17.2	18.4	18.9	19.5	20.6	19.9	21.1	21.6
	8H	16.8	17.9	17.3	18.4	18.9	19.8	20.9	20.3	21.4	21.9
	12H	16.8	17.9	17.3	18.4	18.9	20.1	21.1	20.6	21.6	22.2
4H	2H	15.5	16.7	15.9	17.2	17.7	16.6	17.8	17.1	18.3	18.8
	3H	17.0	18.0	17.5	18.5	19.1	18.6	19.7	19.1	20.2	20.7
	4H	17.5	18.4	18.0	19.0	19.5	19.5	20.5	20.0	21.0	21.5
	6H	17.8	18.7	18.4	19.2	19.8	20.4	21.2	20.9	21.8	22.3
	8H	17.9	18.7	18.5	19.2	19.8	20.8	21.6	21.3	22.1	22.7
	12H	18.0	18.7	18.5	19.2	19.8	21.2	21.9	21.7	22.5	23.0
8H	4H	17.9	18.7	18.4	19.2	19.8	19.7	20.5	20.2	21.0	21.6
	6H	18.3	19.0	18.9	19.6	20.2	20.7	21.4	21.3	21.9	22.5
	8H	18.5	19.1	19.1	19.7	20.3	21.2	21.8	21.8	22.4	23.0
	12H	18.6	19.1	19.1	19.7	20.3	21.7	22.3	22.3	22.8	23.5
12H	4H	18.0	18.7	18.5	19.2	19.8	19.7	20.4	20.3	21.0	21.6
	6H	18.5	19.1	19.1	19.6	20.3	20.7	21.3	21.3	21.9	22.5
	8H	18.7	19.2	19.2	19.8	20.4	21.3	21.8	21.9	22.4	23.1

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1664.985 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.)