



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 39-4-L52-935-A-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19011.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 08/30/2024
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56LED 22"ARRAYS 4'PENDANT MOUNT LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC RIBBED LENS
 [LUMCAT] 39-4-L52-935-A-DIM-UNV
 [LAMPCAT] HLM 90 CRI 3500K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Architectural, Commercial, Direct, Linear
 [_SEARCH_MOUNTING] Pendant, Surface

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4321
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	37.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.01 ft
Luminous Width (90-270)	0.79 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4284	3875	3829
55	3574	3185	3201
65	2957	2607	2780
75	2156	2067	2400
85	1271	1722	2235

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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	1651.534	1651.534	1651.534	1651.534	1651.534
5	1660.705	1659.871	1659.037	1659.037	1659.871
10	1624.023	1623.189	1623.189	1624.023	1625.690
15	1566.498	1568.165	1570.667	1572.334	1574.001
20	1518.978	1519.812	1524.814	1525.647	1525.647
25	1391.424	1394.759	1398.927	1401.428	1401.428
30	1285.546	1289.714	1295.550	1298.885	1299.718
35	1196.341	1203.011	1212.181	1216.350	1218.851
40	1049.612	1057.949	1070.454	1077.957	1081.292
45	932.896	944.568	961.241	972.913	977.081
50	779.497	791.169	813.679	831.186	837.856
55	642.773	656.945	684.457	705.299	714.470
60	512.718	527.724	556.903	587.749	600.255
65	403.505	419.345	456.861	499.379	512.718
70	293.458	312.633	361.820	407.673	426.014
75	191.748	215.091	269.281	318.468	335.976
80	112.548	142.560	201.752	251.774	269.281
85	49.188	81.701	140.059	187.580	204.253
90	0.000	35.849	83.369	121.718	136.725
95	0.000	15.006	53.356	87.537	100.876
100	0.000	0.000	32.514	59.192	68.362
105	0.000	0.000	20.842	39.183	47.520
110	0.000	0.000	0.000	26.678	32.514
115	0.000	0.000	0.000	20.008	24.177
120	0.000	0.000	0.000	16.674	18.341
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
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	601.46	N.A.	13.90
0-30	1248.51	N.A.	28.90
0-40	1997.26	N.A.	46.20
0-60	3340.85	N.A.	77.30
0-80	4083.02	N.A.	94.50
0-90	4230.77	N.A.	97.90
10-90	4073.73	N.A.	94.30
20-40	1395.8	N.A.	32.30
20-50	2128.57	N.A.	49.30
40-70	1797.84	N.A.	41.60
60-80	742.18	N.A.	17.20
70-80	287.92	N.A.	6.70
80-90	147.74	N.A.	3.40
90-110	80.17	N.A.	1.90
90-120	88.44	N.A.	2.00
90-130	89.94	N.A.	2.10
90-150	89.94	N.A.	2.10
90-180	89.94	N.A.	2.10
110-180	9.76	N.A.	0.20
0-180	4320.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	157.04
10-20	444.42
20-30	647.05
30-40	748.75
40-50	732.78
50-60	610.81
60-70	454.25
70-80	287.92
80-90	147.74
90-100	57.86
100-110	22.31
110-120	8.27
120-130	1.49
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	86	88	86	83	81
2	98	90	83	77	95	88	82	76	84	79	74	80	76	72	77	74	70	68
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	71	62	55	80	69	61	55	66	59	54	64	58	53	61	56	52	50
5	76	63	54	48	74	62	54	48	60	52	47	58	51	46	55	50	45	43
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	50	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	46	40	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	36	30	55	43	35	30	42	35	30	41	34	30	39	34	29	27
10	53	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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UGR TABLE - CORRECTED

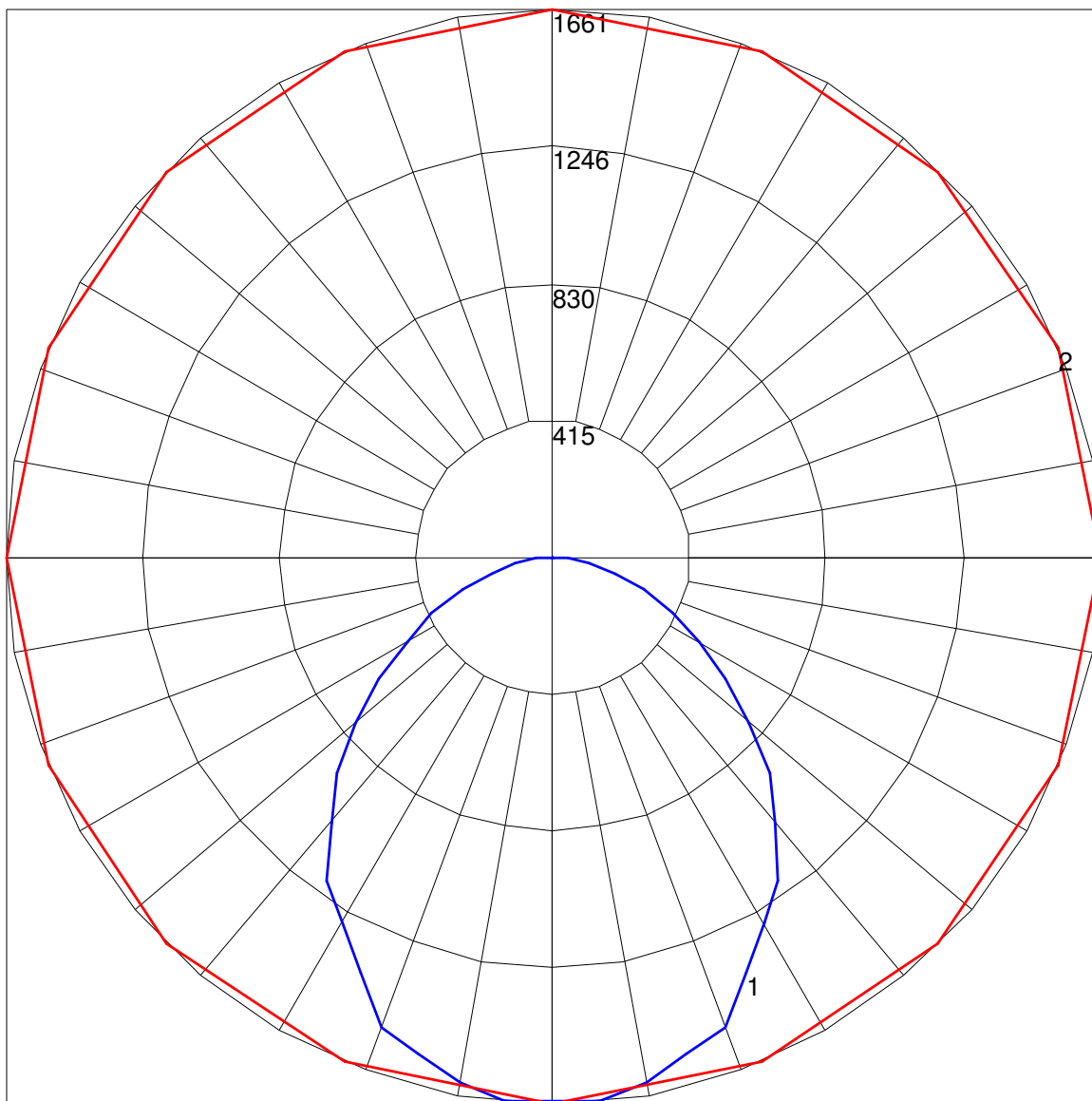
Reflectances

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	15.0	16.5	15.4	16.9	17.3	16.1	17.7	16.5	18.1	18.4
	3H	16.3	17.8	16.7	18.1	18.5	18.2	19.6	18.6	20.0	20.4
	4H	16.7	18.1	17.2	18.5	18.9	19.1	20.4	19.5	20.8	21.2
	6H	17.0	18.3	17.4	18.7	19.1	20.0	21.2	20.4	21.6	22.1
	8H	17.1	18.3	17.5	18.7	19.1	20.4	21.6	20.9	22.0	22.5
	12H	17.1	18.2	17.6	18.7	19.1	20.8	22.0	21.3	22.4	22.9
4H	2H	15.6	17.0	16.1	17.4	17.8	16.6	17.9	17.0	18.3	18.7
	3H	17.2	18.3	17.7	18.8	19.2	18.8	20.0	19.3	20.4	20.8
	4H	17.7	18.8	18.2	19.2	19.7	19.9	20.9	20.4	21.4	21.8
	6H	18.1	19.0	18.6	19.5	20.0	21.0	21.9	21.4	22.3	22.8
	8H	18.2	19.1	18.7	19.5	20.0	21.5	22.3	22.0	22.8	23.3
	12H	18.3	19.0	18.8	19.5	20.1	22.0	22.8	22.6	23.3	23.8
8H	4H	18.2	19.0	18.7	19.5	20.0	20.1	20.9	20.6	21.4	21.9
	6H	18.7	19.4	19.2	19.9	20.4	21.3	22.0	21.8	22.5	23.1
	8H	18.8	19.5	19.4	20.0	20.6	21.9	22.6	22.5	23.1	23.7
	12H	19.0	19.5	19.5	20.1	20.7	22.7	23.2	23.2	23.8	24.4
12H	4H	18.3	19.0	18.8	19.6	20.1	20.1	20.8	20.6	21.4	21.9
	6H	18.8	19.5	19.4	20.0	20.6	21.3	22.0	21.9	22.5	23.1
	8H	19.1	19.7	19.6	20.2	20.8	22.0	22.6	22.6	23.1	23.7

Maximum UGR = 24.4

POLAR GRAPH



Maximum Candela = 1660.705 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.)