



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L53-950-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 18635.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 2024-01-08
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4'SUSPENDED INDUSTRIAL LED LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] 0-10V DIMMING DRIVER
[LUMCAT] 80-4-L53-950-DIM-UNV
[LAMPCAT] HLM 90 CRI 5000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4582
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	34.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4970	4850	4837
55	4789	4684	4664
65	4562	4461	2384
75	3668	2038	390
85	1648	721	541

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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	1721.610	1721.610	1721.610	1721.610	1721.610
5	1701.158	1695.314	1690.201	1696.775	1704.079
10	1666.828	1660.984	1687.280	1691.662	1674.862
15	1628.115	1644.915	1626.654	1613.507	1613.507
20	1579.177	1615.698	1563.838	1555.803	1555.803
25	1515.630	1523.665	1498.100	1493.717	1493.717
30	1434.553	1422.136	1412.640	1407.527	1406.066
35	1348.363	1335.946	1324.989	1323.528	1320.607
40	1253.408	1232.956	1227.112	1224.921	1223.460
45	1143.844	1120.471	1116.088	1114.627	1113.166
50	1016.020	999.220	994.107	992.646	992.646
55	894.039	875.779	874.318	870.666	870.666
60	755.259	741.380	739.920	736.998	734.807
65	627.434	615.017	613.556	472.584	327.960
70	479.158	468.202	374.708	254.188	259.301
75	308.969	308.969	171.650	148.276	32.869
80	163.615	105.911	29.947	24.834	24.834
85	46.747	24.834	20.452	15.339	15.339
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	621.46	N.A.	13.60
0-30	1314.19	N.A.	28.70
0-40	2145.68	N.A.	46.80
0-60	3789.83	N.A.	82.70
0-80	4551.73	N.A.	99.30
0-90	4581.55	N.A.	100.00
10-90	4419.99	N.A.	96.50
20-40	1524.22	N.A.	33.30
20-50	2387.36	N.A.	52.10
40-70	2187.41	N.A.	47.70
60-80	761.90	N.A.	16.60
70-80	218.64	N.A.	4.80
80-90	29.82	N.A.	0.70
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4581.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	161.55
10-20	459.91
20-30	692.73
30-40	831.49
40-50	863.14
50-60	781.01
60-70	543.26
70-80	218.64
80-90	29.82
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
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	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39
7	66	53	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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UGR TABLE - CORRECTED

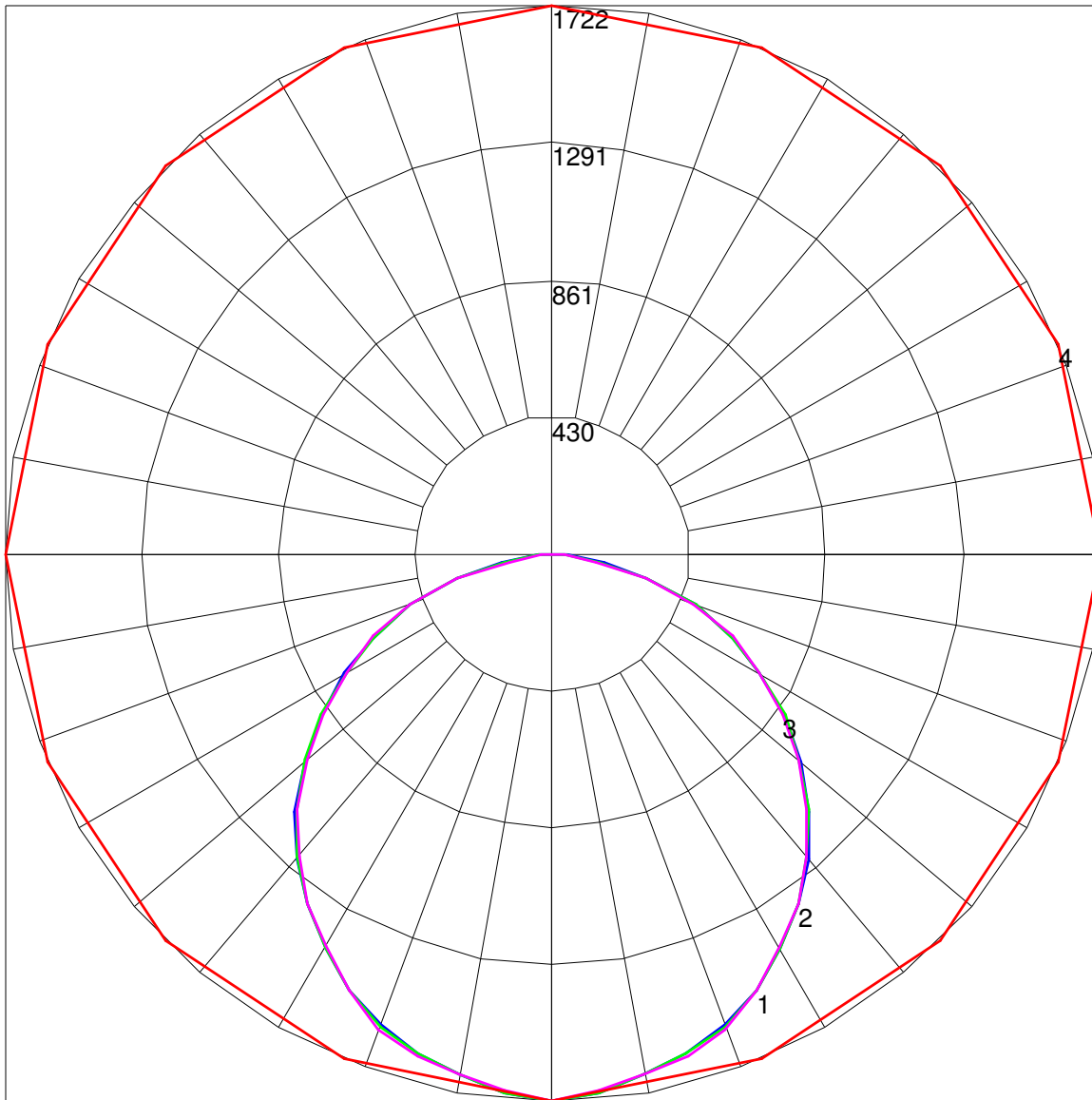
Reflectances

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	17.8	19.4	18.2	19.7	20.0	17.7	19.3	18.1	19.7	20.0
	3H	19.7	21.1	20.1	21.5	21.8	18.4	19.9	18.8	20.2	20.6
	4H	20.3	21.7	20.7	22.0	22.4	18.5	19.8	18.9	20.2	20.6
	6H	20.7	21.9	21.1	22.3	22.7	18.4	19.7	18.9	20.1	20.4
	8H	20.7	21.9	21.2	22.3	22.7	18.4	19.6	18.8	20.0	20.4
	12H	20.8	21.9	21.2	22.3	22.7	18.4	19.5	18.8	19.9	20.3
4H	2H	18.5	19.8	18.9	20.2	20.6	18.4	19.8	18.8	20.1	20.5
	3H	20.5	21.6	20.9	22.0	22.4	19.2	20.4	19.7	20.8	21.2
	4H	21.2	22.2	21.6	22.6	23.1	19.4	20.4	19.8	20.8	21.2
	6H	21.6	22.5	22.1	22.9	23.4	19.3	20.2	19.8	20.7	21.1
	8H	21.7	22.5	22.2	23.0	23.4	19.3	20.2	19.8	20.6	21.1
	12H	21.8	22.5	22.2	23.0	23.4	19.3	20.0	19.8	20.5	21.0
8H	4H	21.3	22.1	21.7	22.5	23.0	19.6	20.4	20.0	20.8	21.3
	6H	21.7	22.3	22.2	22.8	23.3	19.5	20.2	20.0	20.7	21.2
	8H	21.8	22.4	22.3	22.9	23.4	19.5	20.1	20.0	20.6	21.1
	12H	21.8	22.4	22.4	22.9	23.4	19.5	20.0	20.0	20.5	21.1
12H	4H	21.2	22.0	21.7	22.4	22.9	19.5	20.3	20.0	20.8	21.2
	6H	21.7	22.3	22.2	22.7	23.3	19.5	20.1	20.1	20.6	21.1
	8H	21.8	22.3	22.3	22.8	23.4	19.5	20.0	20.0	20.5	21.1

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 1721.61 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (5 - 185)

3 - Vertical Plane Through Horizontal Angles (10 - 190)

4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)