



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L53-935-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
[ISSUEDATE] 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-L53-935-DIM-UNV
[LAMPCAT] HLM 90 CRI 3500K 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	4262
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	4623	4511	4499
55	4455	4357	4339
65	4243	4149	2218
75	3412	1896	363
85	1533	671	503

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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	1601.497	1601.497	1601.497	1601.497	1601.497
5	1582.472	1577.037	1572.280	1578.396	1585.190
10	1550.537	1545.102	1569.562	1573.639	1558.012
15	1514.526	1530.154	1513.167	1500.937	1500.937
20	1469.002	1502.975	1454.733	1447.259	1447.259
25	1409.888	1417.362	1393.581	1389.504	1389.504
30	1334.468	1322.917	1314.084	1309.328	1307.969
35	1254.291	1242.740	1232.548	1231.189	1228.471
40	1165.961	1146.936	1141.500	1139.462	1138.103
45	1064.041	1042.298	1038.221	1036.862	1035.504
50	945.135	929.507	924.751	923.392	923.392
55	831.664	814.678	813.319	809.921	809.921
60	702.566	689.656	688.297	685.579	683.541
65	583.660	572.109	570.750	439.613	305.079
70	445.729	435.537	348.565	236.454	241.210
75	287.413	287.413	159.674	137.931	30.576
80	152.200	98.522	27.858	23.102	23.102
85	43.486	23.102	19.025	14.269	14.269
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	578.10	N.A.	13.60
0-30	1222.5	N.A.	28.70
0-40	1995.98	N.A.	46.80
0-60	3525.42	N.A.	82.70
0-80	4234.17	N.A.	99.30
0-90	4261.9	N.A.	100.00
10-90	4111.62	N.A.	96.50
20-40	1417.88	N.A.	33.30
20-50	2220.8	N.A.	52.10
40-70	2034.8	N.A.	47.70
60-80	708.75	N.A.	16.60
70-80	203.38	N.A.	4.80
80-90	27.74	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	4261.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	150.28
10-20	427.82
20-30	644.40
30-40	773.48
40-50	802.92
50-60	726.52
60-70	505.36
70-80	203.38
80-90	27.74
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

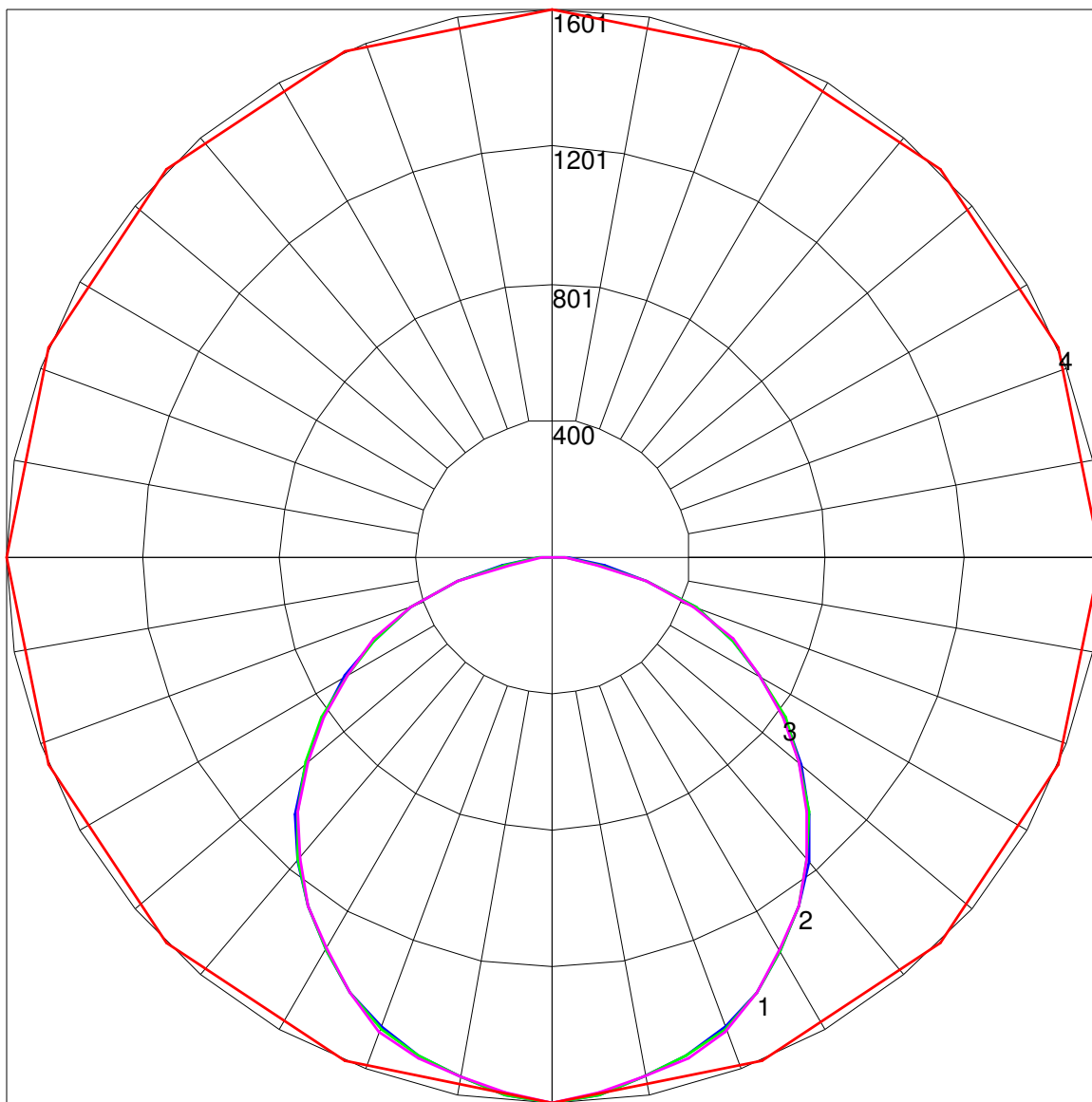
Reflectances

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	17.5	19.1	17.9	19.4	19.7	17.4	19.0	17.8	19.4	19.7
	3H	19.4	20.8	19.8	21.2	21.5	18.1	19.6	18.5	19.9	20.3
	4H	20.0	21.4	20.4	21.7	22.1	18.2	19.5	18.6	19.9	20.3
	6H	20.4	21.6	20.8	22.0	22.4	18.1	19.4	18.5	19.8	20.1
	8H	20.4	21.6	20.9	22.0	22.4	18.1	19.3	18.5	19.7	20.1
	12H	20.5	21.6	20.9	22.0	22.4	18.1	19.2	18.5	19.6	20.0
4H	2H	18.2	19.5	18.6	19.9	20.3	18.1	19.5	18.5	19.8	20.2
	3H	20.2	21.3	20.6	21.7	22.1	18.9	20.1	19.4	20.5	20.9
	4H	20.9	21.9	21.3	22.3	22.8	19.1	20.1	19.5	20.5	20.9
	6H	21.3	22.2	21.8	22.6	23.1	19.0	19.9	19.5	20.4	20.8
	8H	21.4	22.2	21.9	22.7	23.1	19.0	19.9	19.5	20.3	20.8
	12H	21.5	22.2	21.9	22.7	23.1	19.0	19.7	19.5	20.2	20.7
8H	4H	21.0	21.8	21.4	22.2	22.7	19.2	20.1	19.7	20.5	21.0
	6H	21.4	22.0	21.9	22.5	23.0	19.2	19.9	19.7	20.4	20.9
	8H	21.5	22.1	22.0	22.6	23.1	19.2	19.8	19.7	20.3	20.8
	12H	21.5	22.1	22.0	22.6	23.1	19.2	19.7	19.7	20.2	20.8
12H	4H	20.9	21.7	21.4	22.1	22.6	19.2	20.0	19.7	20.4	20.9
	6H	21.4	22.0	21.9	22.4	23.0	19.2	19.8	19.8	20.3	20.8
	8H	21.5	22.0	22.0	22.5	23.1	19.2	19.7	19.7	20.2	20.8

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1601.497 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.)