



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L53-835-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-L53-835-DIM-UNV
[LAMPCAT] HLM 80 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	5168
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	151
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	5606	5470	5456
55	5402	5283	5261
65	5145	5031	2689
75	4137	2298	440
85	1859	813	610

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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	1941.816	1941.816	1941.816	1941.816	1941.816
5	1918.748	1912.157	1906.390	1913.805	1922.043
10	1880.027	1873.436	1903.095	1908.038	1889.089
15	1836.363	1855.311	1834.715	1819.886	1819.886
20	1781.165	1822.357	1763.864	1754.802	1754.802
25	1709.490	1718.552	1689.717	1684.774	1684.774
30	1618.042	1604.037	1593.327	1587.560	1585.912
35	1520.828	1506.823	1494.465	1492.817	1489.522
40	1413.727	1390.660	1384.069	1381.597	1379.950
45	1290.150	1263.787	1258.844	1257.196	1255.548
50	1145.976	1127.028	1121.261	1119.613	1119.613
55	1008.393	987.797	986.149	982.030	982.030
60	851.861	836.208	834.561	831.265	828.794
65	707.688	693.682	692.034	533.031	369.909
70	540.446	528.088	422.635	286.700	292.467
75	348.489	348.489	193.605	167.242	37.073
80	184.543	119.458	33.778	28.011	28.011
85	52.726	28.011	23.068	17.301	17.301
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	700.95	N.A.	13.60
0-30	1482.28	N.A.	28.70
0-40	2420.13	N.A.	46.80
0-60	4274.57	N.A.	82.70
0-80	5133.93	N.A.	99.30
0-90	5167.56	N.A.	100.00
10-90	4985.34	N.A.	96.50
20-40	1719.18	N.A.	33.30
20-50	2692.72	N.A.	52.10
40-70	2467.19	N.A.	47.70
60-80	859.35	N.A.	16.60
70-80	246.60	N.A.	4.80
80-90	33.63	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	5167.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	182.22
10-20	518.73
20-30	781.33
30-40	937.85
40-50	973.54
50-60	880.90
60-70	612.75
70-80	246.60
80-90	33.63
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

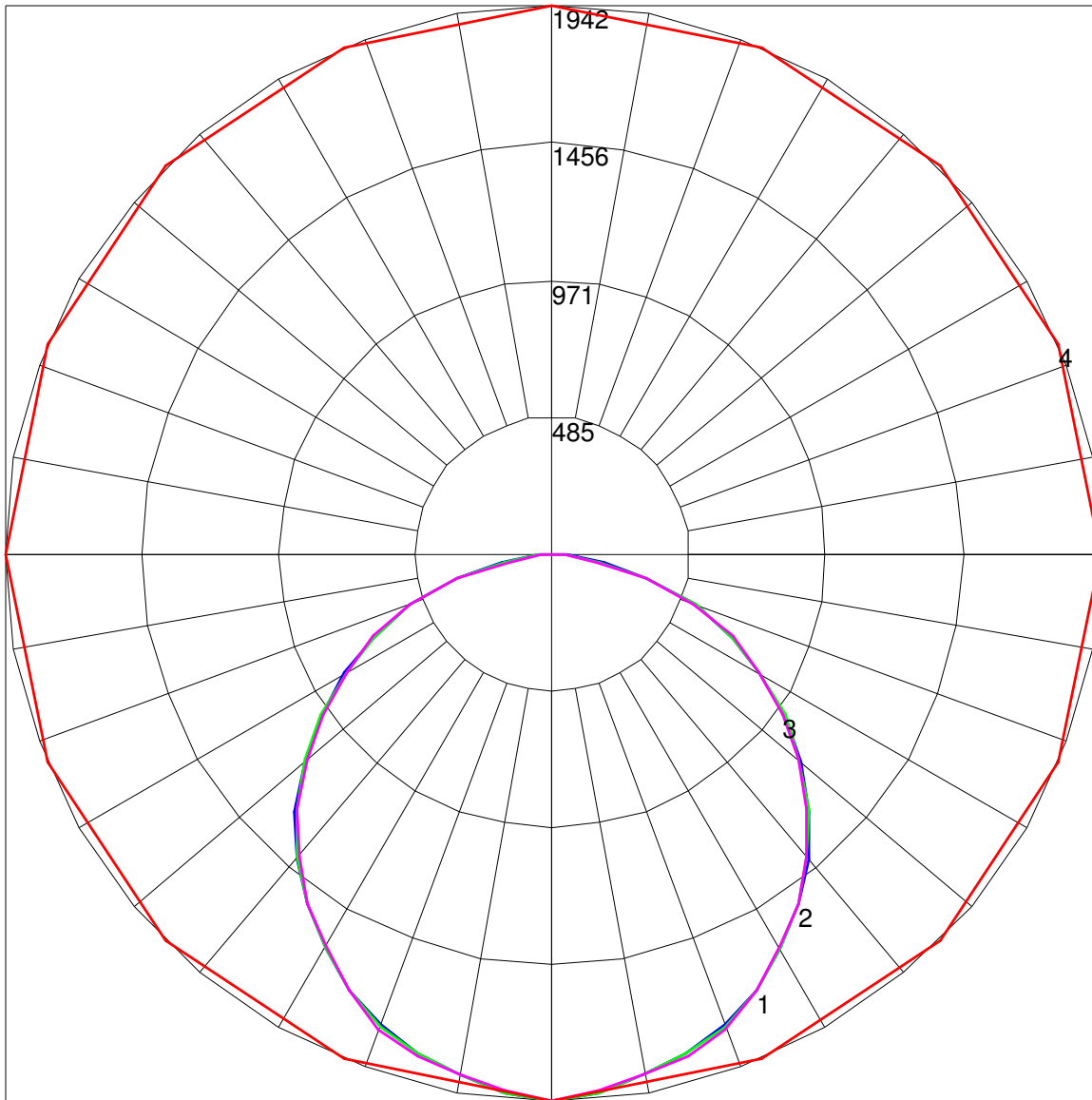
Reflectances

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	18.2	19.8	18.6	20.1	20.4	18.1	19.7	18.5	20.1	20.4
	3H	20.1	21.5	20.5	21.9	22.2	18.8	20.3	19.2	20.6	21.0
	4H	20.7	22.1	21.1	22.4	22.8	18.9	20.2	19.3	20.6	21.0
	6H	21.1	22.3	21.5	22.7	23.1	18.8	20.1	19.2	20.5	20.8
	8H	21.1	22.3	21.6	22.7	23.1	18.8	20.0	19.2	20.4	20.8
	12H	21.2	22.3	21.6	22.7	23.1	18.8	19.9	19.2	20.3	20.7
4H	2H	18.9	20.2	19.3	20.6	21.0	18.8	20.2	19.2	20.5	20.9
	3H	20.9	22.0	21.3	22.4	22.8	19.6	20.8	20.1	21.2	21.6
	4H	21.6	22.6	22.0	23.0	23.5	19.8	20.8	20.2	21.2	21.6
	6H	22.0	22.9	22.5	23.3	23.8	19.7	20.6	20.2	21.1	21.5
	8H	22.1	22.9	22.6	23.4	23.8	19.7	20.6	20.2	21.0	21.5
	12H	22.2	22.9	22.6	23.4	23.8	19.7	20.4	20.2	20.9	21.4
8H	4H	21.7	22.5	22.1	22.9	23.4	20.0	20.8	20.4	21.2	21.7
	6H	22.1	22.7	22.6	23.2	23.7	19.9	20.6	20.4	21.1	21.6
	8H	22.2	22.8	22.7	23.3	23.8	19.9	20.5	20.4	21.0	21.5
	12H	22.2	22.8	22.8	23.3	23.8	19.9	20.4	20.4	20.9	21.5
12H	4H	21.6	22.4	22.1	22.8	23.3	19.9	20.7	20.4	21.2	21.6
	6H	22.1	22.7	22.6	23.1	23.7	19.9	20.5	20.5	21.0	21.5
	8H	22.2	22.7	22.7	23.2	23.8	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 1941.816 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.)