



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-4-L53-827-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-L53-827-DIM-UNV
[LAMPCAT] HLM 80 CRI 2700K 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	5008
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	5433	5301	5287
55	5235	5119	5098
65	4986	4876	2606
75	4009	2227	427
85	1801	788	591

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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	1881.759	1881.759	1881.759	1881.759	1881.759
5	1859.405	1853.018	1847.429	1854.615	1862.598
10	1821.881	1815.494	1844.236	1849.026	1830.664
15	1779.568	1797.930	1777.971	1763.600	1763.600
20	1726.077	1765.996	1709.311	1700.529	1700.529
25	1656.619	1665.401	1637.458	1632.668	1632.668
30	1568.000	1554.427	1544.049	1538.460	1536.863
35	1473.792	1460.220	1448.244	1446.647	1443.454
40	1370.004	1347.649	1341.262	1338.867	1337.271
45	1250.248	1224.700	1219.910	1218.313	1216.717
50	1110.533	1092.171	1086.582	1084.985	1084.985
55	977.205	957.246	955.649	951.658	951.658
60	825.515	810.346	808.749	805.556	803.161
65	685.800	672.228	670.631	516.546	358.468
70	523.731	511.755	409.564	277.833	283.422
75	337.711	337.711	187.617	162.069	35.927
80	178.835	115.764	32.733	27.145	27.145
85	51.096	27.145	22.354	16.766	16.766
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	679.27	N.A.	13.60
0-30	1436.44	N.A.	28.70
0-40	2345.28	N.A.	46.80
0-60	4142.37	N.A.	82.70
0-80	4975.14	N.A.	99.30
0-90	5007.74	N.A.	100.00
10-90	4831.15	N.A.	96.50
20-40	1666.01	N.A.	33.30
20-50	2609.44	N.A.	52.10
40-70	2390.89	N.A.	47.70
60-80	832.78	N.A.	16.60
70-80	238.98	N.A.	4.80
80-90	32.59	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	5007.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	176.58
10-20	502.69
20-30	757.17
30-40	908.84
40-50	943.43
50-60	853.66
60-70	593.80
70-80	238.98
80-90	32.59
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

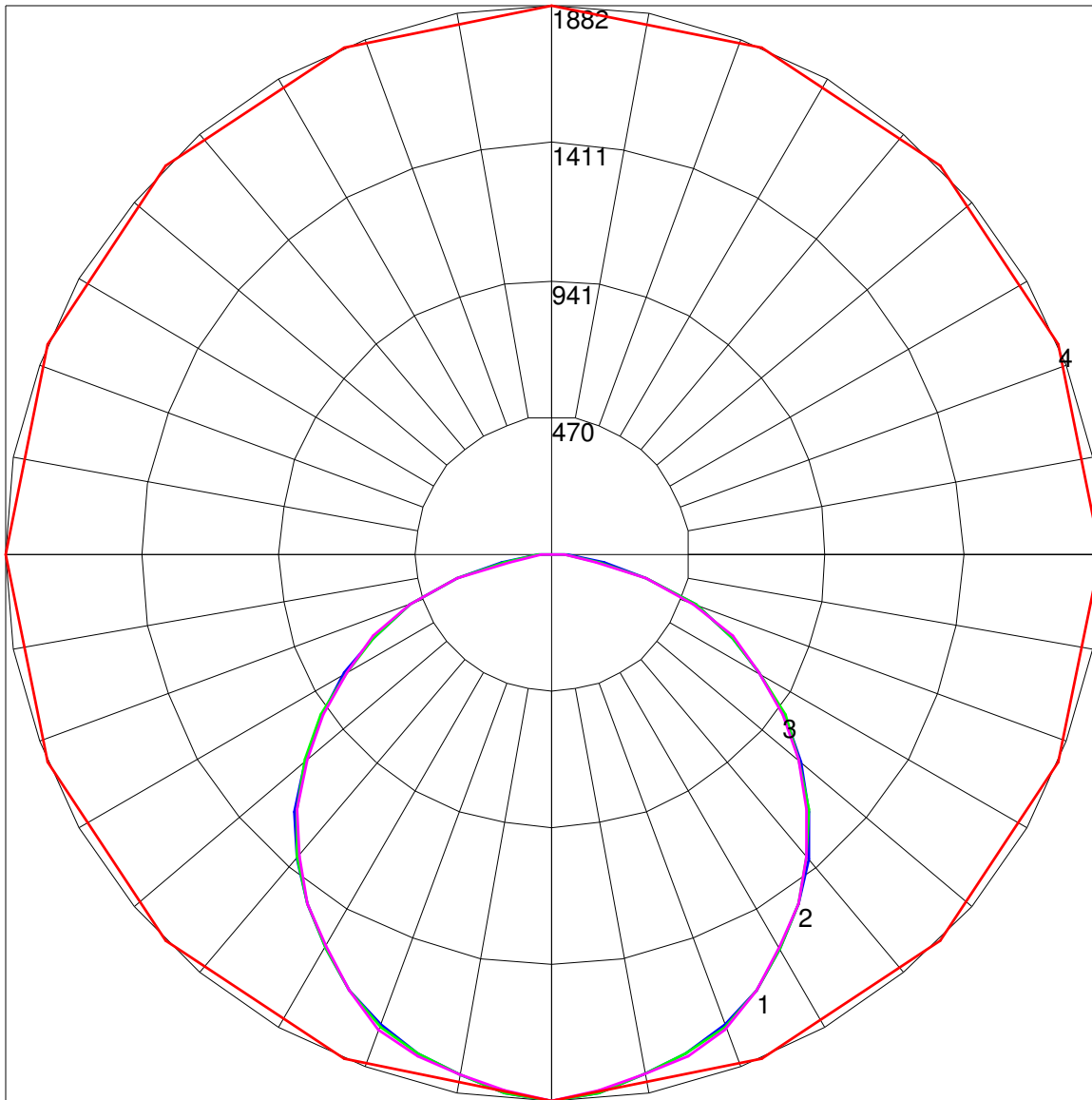
Reflectances

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	18.1	19.7	18.5	20.0	20.3	18.0	19.6	18.4	20.0	20.3
	3H	20.0	21.4	20.4	21.8	22.1	18.7	20.2	19.1	20.5	20.9
	4H	20.6	22.0	21.0	22.3	22.7	18.8	20.1	19.2	20.5	20.9
	6H	21.0	22.2	21.4	22.6	23.0	18.7	20.0	19.1	20.4	20.7
	8H	21.0	22.2	21.5	22.6	23.0	18.7	19.9	19.1	20.3	20.7
	12H	21.1	22.2	21.5	22.6	23.0	18.7	19.8	19.1	20.2	20.6
4H	2H	18.8	20.1	19.2	20.5	20.9	18.7	20.1	19.1	20.4	20.8
	3H	20.8	21.9	21.2	22.3	22.7	19.5	20.7	20.0	21.1	21.5
	4H	21.5	22.5	21.9	22.9	23.4	19.7	20.7	20.1	21.1	21.5
	6H	21.9	22.8	22.4	23.2	23.7	19.6	20.5	20.1	21.0	21.4
	8H	22.0	22.8	22.5	23.3	23.7	19.6	20.5	20.1	20.9	21.4
	12H	22.1	22.8	22.5	23.3	23.7	19.6	20.3	20.1	20.8	21.3
8H	4H	21.6	22.4	22.0	22.8	23.3	19.8	20.7	20.3	21.1	21.6
	6H	22.0	22.6	22.5	23.1	23.6	19.8	20.5	20.3	21.0	21.5
	8H	22.1	22.7	22.6	23.2	23.7	19.8	20.4	20.3	20.9	21.4
	12H	22.1	22.7	22.6	23.2	23.7	19.8	20.3	20.3	20.8	21.4
12H	4H	21.5	22.3	22.0	22.7	23.2	19.8	20.6	20.3	21.0	21.5
	6H	22.0	22.6	22.5	23.0	23.6	19.8	20.4	20.4	20.9	21.4
	8H	22.1	22.6	22.6	23.1	23.7	19.8	20.3	20.3	20.8	21.4

Maximum UGR = 23.7

POLAR GRAPH



Maximum Candela = 1881.759 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.)