



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L53-927-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-L53-927-DIM-UNV
[LAMPCAT] HLM 90 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	4102
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
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	4450	4342	4331
55	4288	4193	4176
65	4084	3994	2135
75	3284	1824	349
85	1476	646	484

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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	1541.441	1541.441	1541.441	1541.441	1541.441
5	1523.130	1517.898	1513.320	1519.206	1525.746
10	1492.392	1487.161	1510.704	1514.628	1499.586
15	1457.731	1472.773	1456.423	1444.652	1444.652
20	1413.914	1446.614	1400.181	1392.987	1392.987
25	1357.018	1364.212	1341.322	1337.398	1337.398
30	1284.425	1273.308	1264.806	1260.228	1258.920
35	1207.255	1196.138	1186.328	1185.020	1182.404
40	1122.237	1103.926	1098.694	1096.732	1095.424
45	1024.140	1003.212	999.288	997.980	996.672
50	909.692	894.651	890.073	888.765	888.765
55	800.477	784.127	782.819	779.549	779.549
60	676.220	663.794	662.486	659.870	657.908
65	561.773	550.655	549.347	423.128	293.639
70	429.014	419.204	335.494	227.587	232.164
75	276.635	276.635	153.686	132.759	29.429
80	146.493	94.828	26.813	22.235	22.235
85	41.855	22.235	18.312	13.734	13.734
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	556.42	N.A.	13.60
0-30	1176.66	N.A.	28.70
0-40	1921.14	N.A.	46.80
0-60	3393.22	N.A.	82.70
0-80	4075.38	N.A.	99.30
0-90	4102.08	N.A.	100.00
10-90	3957.43	N.A.	96.50
20-40	1364.71	N.A.	33.30
20-50	2137.52	N.A.	52.10
40-70	1958.49	N.A.	47.70
60-80	682.17	N.A.	16.60
70-80	195.76	N.A.	4.80
80-90	26.70	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	4102.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	144.65
10-20	411.78
20-30	620.23
30-40	744.48
40-50	772.81
50-60	699.27
60-70	486.41
70-80	195.76
80-90	26.70
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	40	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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UGR TABLE - CORRECTED

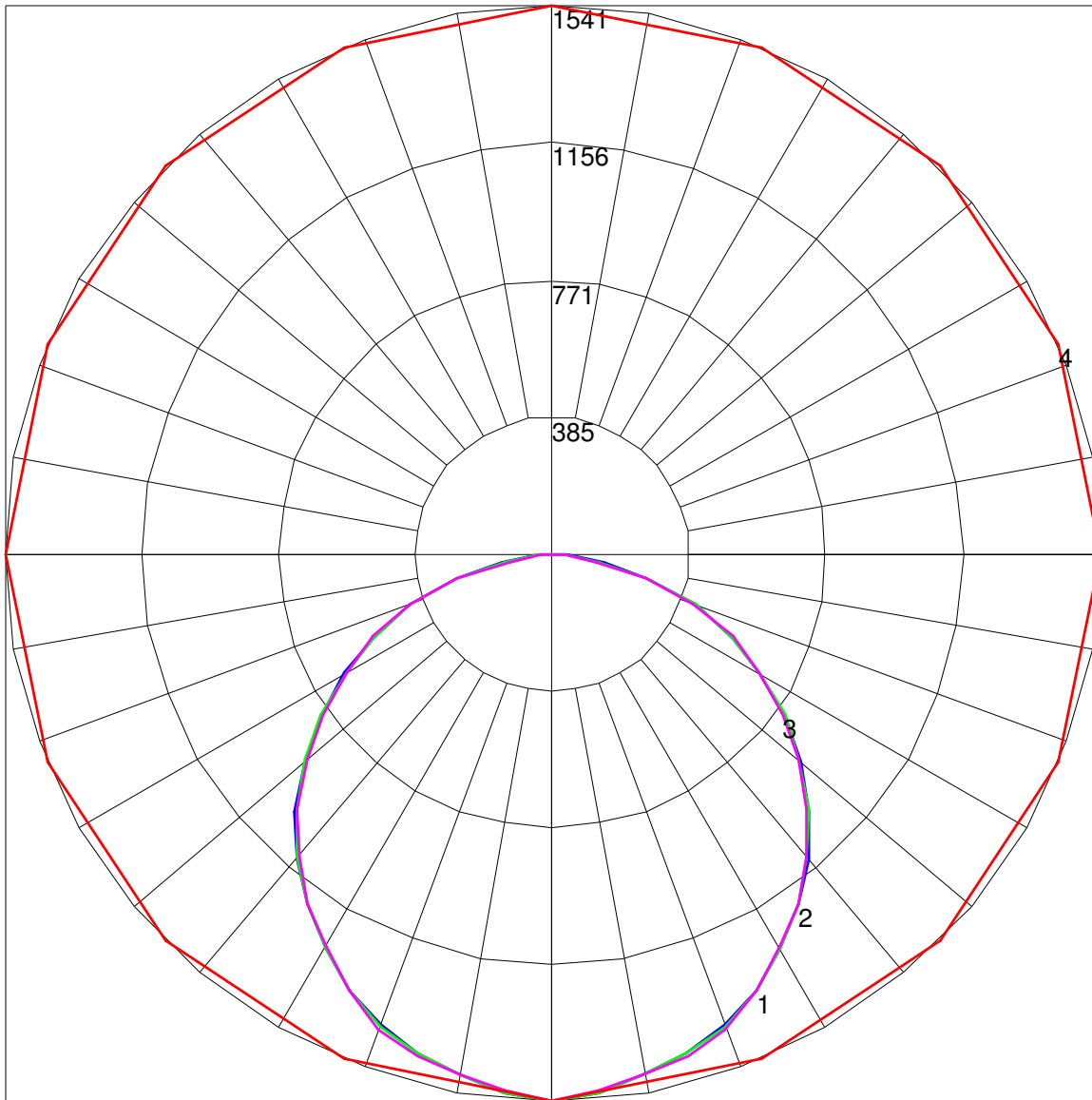
Reflectances

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	17.4	19.0	17.8	19.3	19.6	17.3	18.9	17.7	19.3	19.6
	3H	19.3	20.7	19.7	21.1	21.4	18.0	19.5	18.4	19.8	20.2
	4H	19.9	21.3	20.3	21.6	22.0	18.1	19.4	18.5	19.8	20.2
	6H	20.3	21.5	20.7	21.9	22.3	18.0	19.3	18.4	19.7	20.0
	8H	20.3	21.5	20.8	21.9	22.3	18.0	19.2	18.4	19.6	20.0
	12H	20.4	21.5	20.8	21.9	22.3	18.0	19.1	18.4	19.5	19.9
4H	2H	18.1	19.4	18.5	19.8	20.2	18.0	19.4	18.4	19.7	20.1
	3H	20.1	21.2	20.5	21.6	22.0	18.8	20.0	19.3	20.4	20.8
	4H	20.8	21.8	21.2	22.2	22.7	19.0	20.0	19.4	20.4	20.8
	6H	21.2	22.1	21.7	22.5	23.0	18.9	19.8	19.4	20.3	20.7
	8H	21.3	22.1	21.8	22.6	23.0	18.9	19.8	19.4	20.2	20.7
	12H	21.4	22.1	21.8	22.6	23.0	18.9	19.6	19.4	20.1	20.6
8H	4H	20.9	21.7	21.3	22.1	22.6	19.2	20.0	19.6	20.4	20.9
	6H	21.3	21.9	21.8	22.4	22.9	19.1	19.8	19.6	20.3	20.8
	8H	21.4	22.0	21.9	22.5	23.0	19.1	19.7	19.6	20.2	20.7
	12H	21.4	22.0	21.9	22.5	23.0	19.1	19.6	19.6	20.1	20.7
12H	4H	20.8	21.6	21.3	22.0	22.5	19.1	19.9	19.6	20.4	20.8
	6H	21.3	21.9	21.8	22.3	22.9	19.1	19.7	19.7	20.2	20.7
	8H	21.4	21.9	21.9	22.4	23.0	19.1	19.6	19.6	20.1	20.7

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 1541.441 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.)