



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L53-850-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-L53-850-DIM-UNV
[LAMPCAT] HLM 80 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	5487
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	160
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	5953	5808	5793
55	5736	5609	5586
65	5463	5342	2856
75	4393	2441	467
85	1974	864	648

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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	2061.928	2061.928	2061.928	2061.928	2061.928
5	2037.433	2030.435	2024.311	2032.184	2040.932
10	1996.317	1989.319	2020.812	2026.061	2005.940
15	1949.952	1970.073	1948.202	1932.456	1932.456
20	1891.340	1935.080	1872.969	1863.346	1863.346
25	1815.231	1824.854	1794.236	1788.987	1788.987
30	1718.127	1703.256	1691.883	1685.759	1684.010
35	1614.900	1600.028	1586.906	1585.156	1581.657
40	1501.174	1476.680	1469.681	1467.057	1465.307
45	1369.953	1341.959	1336.710	1334.960	1333.211
50	1216.861	1196.740	1190.617	1188.867	1188.867
55	1070.768	1048.898	1047.148	1042.774	1042.774
60	904.554	887.932	886.183	882.684	880.059
65	751.462	736.590	734.841	566.002	392.790
70	573.876	560.753	448.778	304.434	310.558
75	370.045	370.045	205.580	177.586	39.366
80	195.958	126.847	35.867	29.744	29.744
85	55.988	29.744	24.495	18.371	18.371
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	744.31	N.A.	13.60
0-30	1573.97	N.A.	28.70
0-40	2569.83	N.A.	46.80
0-60	4538.98	N.A.	82.70
0-80	5451.49	N.A.	99.30
0-90	5487.2	N.A.	100.00
10-90	5293.71	N.A.	96.50
20-40	1825.52	N.A.	33.30
20-50	2859.28	N.A.	52.10
40-70	2619.8	N.A.	47.70
60-80	912.51	N.A.	16.60
70-80	261.86	N.A.	4.80
80-90	35.71	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	5487.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	193.49
10-20	550.82
20-30	829.66
30-40	995.86
40-50	1033.76
50-60	935.39
60-70	650.65
70-80	261.86
80-90	35.71
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

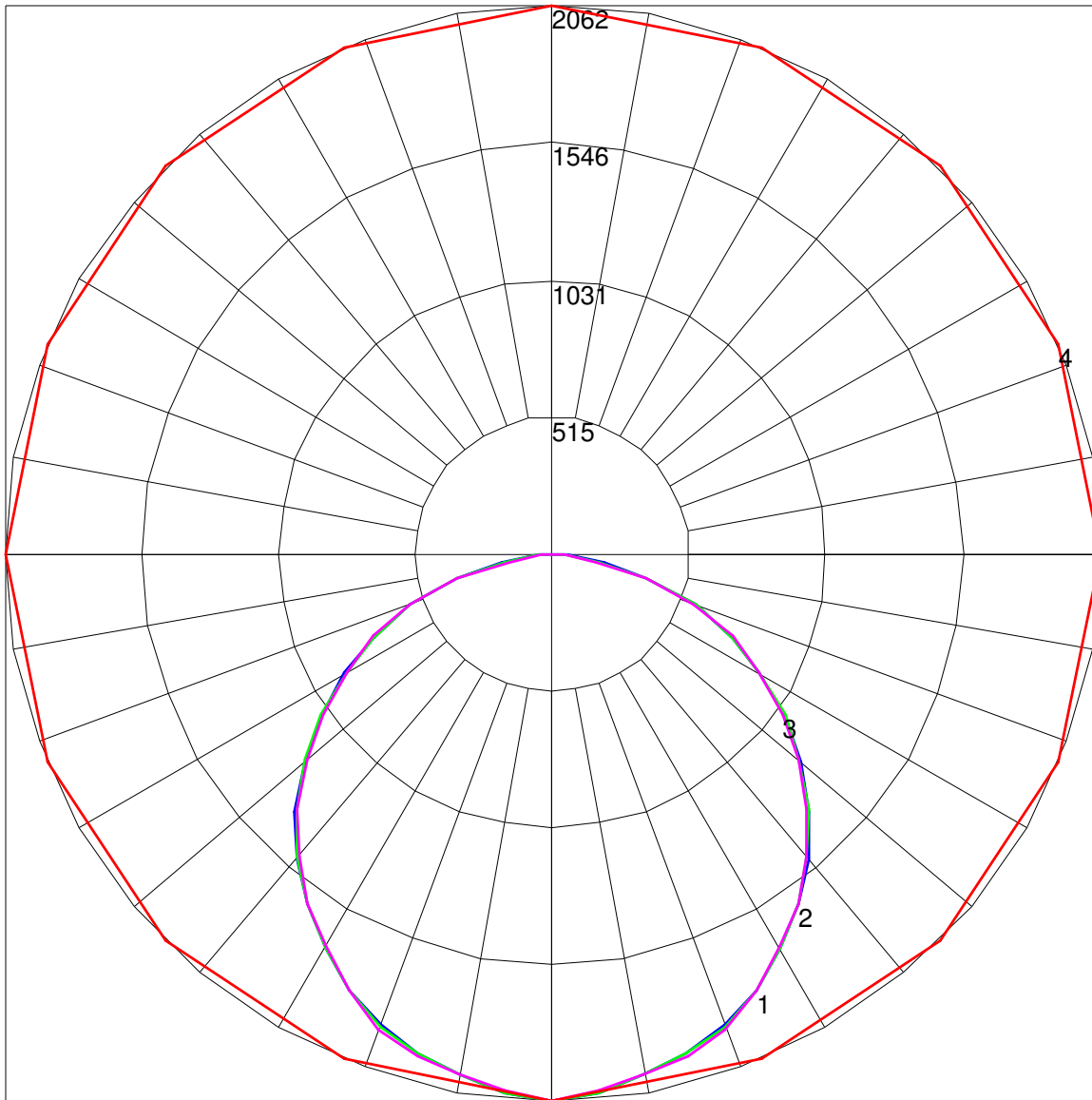
Reflectances

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	18.4	20.0	18.8	20.3	20.6	18.3	19.9	18.7	20.3	20.6
	3H	20.3	21.7	20.7	22.1	22.4	19.0	20.5	19.4	20.8	21.2
	4H	20.9	22.3	21.3	22.6	23.0	19.1	20.4	19.5	20.8	21.2
	6H	21.3	22.5	21.7	22.9	23.3	19.0	20.3	19.4	20.7	21.0
	8H	21.3	22.5	21.8	22.9	23.3	19.0	20.2	19.4	20.6	21.0
	12H	21.4	22.5	21.8	22.9	23.3	19.0	20.1	19.4	20.5	20.9
4H	2H	19.1	20.4	19.5	20.8	21.2	19.0	20.4	19.4	20.7	21.1
	3H	21.1	22.2	21.5	22.6	23.0	19.8	21.0	20.3	21.4	21.8
	4H	21.8	22.8	22.2	23.2	23.7	20.0	21.0	20.4	21.4	21.8
	6H	22.2	23.1	22.7	23.5	24.0	19.9	20.8	20.4	21.3	21.7
	8H	22.3	23.1	22.8	23.6	24.0	19.9	20.8	20.4	21.2	21.7
	12H	22.4	23.1	22.8	23.6	24.0	19.9	20.6	20.4	21.1	21.6
8H	4H	21.9	22.7	22.3	23.1	23.6	20.1	21.0	20.6	21.4	21.9
	6H	22.3	22.9	22.8	23.4	23.9	20.1	20.8	20.6	21.3	21.8
	8H	22.4	23.0	22.9	23.5	24.0	20.1	20.7	20.6	21.2	21.7
	12H	22.4	23.0	22.9	23.5	24.0	20.1	20.6	20.6	21.1	21.7
12H	4H	21.8	22.6	22.3	23.0	23.5	20.1	20.9	20.6	21.3	21.8
	6H	22.3	22.9	22.8	23.3	23.9	20.1	20.7	20.7	21.2	21.7
	8H	22.4	22.9	22.9	23.4	24.0	20.1	20.6	20.6	21.1	21.7

Maximum UGR = 24.0

POLAR GRAPH



Maximum Candela = 2061.928 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.)