



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L53-840-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-L53-840-DIM-UNV
[LAMPCAT] HLM 80 CRI 4000K 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	5327
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
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	5779	5639	5624
55	5569	5446	5423
65	5304	5187	2772
75	4265	2369	454
85	1916	838	629

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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	2001.872	2001.872	2001.872	2001.872	2001.872
5	1978.091	1971.296	1965.351	1972.995	1981.488
10	1938.172	1931.377	1961.953	1967.049	1947.515
15	1893.158	1912.692	1891.459	1876.171	1876.171
20	1836.252	1878.719	1818.416	1809.074	1809.074
25	1762.361	1771.703	1741.977	1736.881	1736.881
30	1668.085	1653.646	1642.605	1636.660	1634.961
35	1567.864	1553.425	1540.685	1538.987	1535.589
40	1457.451	1433.670	1426.875	1424.327	1422.628
45	1330.051	1302.873	1297.777	1296.078	1294.380
50	1181.419	1161.884	1155.939	1154.240	1154.240
55	1039.580	1018.347	1016.649	1012.402	1012.402
60	878.208	862.070	860.372	856.974	854.426
65	729.575	715.136	713.438	549.517	381.349
70	557.161	544.421	435.707	295.567	301.512
75	359.267	359.267	199.593	172.414	38.220
80	190.250	123.153	34.823	28.877	28.877
85	54.357	28.877	23.781	17.836	17.836
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	722.63	N.A.	13.60
0-30	1528.13	N.A.	28.70
0-40	2494.98	N.A.	46.80
0-60	4406.77	N.A.	82.70
0-80	5292.71	N.A.	99.30
0-90	5327.38	N.A.	100.00
10-90	5139.53	N.A.	96.50
20-40	1772.35	N.A.	33.30
20-50	2776.00	N.A.	52.10
40-70	2543.5	N.A.	47.70
60-80	885.93	N.A.	16.60
70-80	254.23	N.A.	4.80
80-90	34.67	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	5327.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	187.85
10-20	534.77
20-30	805.50
30-40	966.85
40-50	1003.65
50-60	908.15
60-70	631.70
70-80	254.23
80-90	34.67
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	42	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

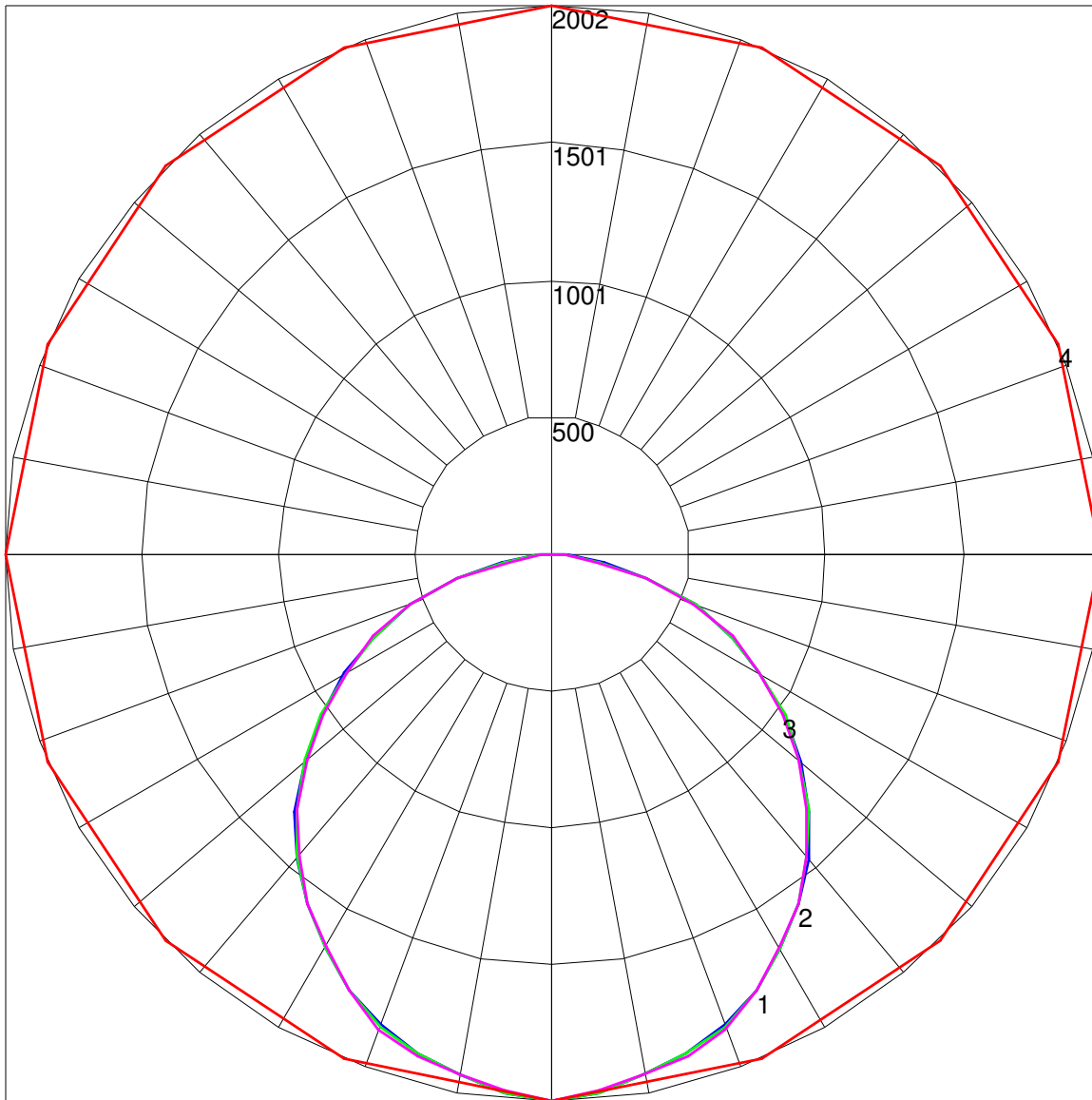
Reflectances

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	18.3	19.9	18.7	20.2	20.5	18.2	19.8	18.6	20.2	20.5
	3H	20.2	21.6	20.6	22.0	22.3	18.9	20.4	19.3	20.7	21.1
	4H	20.8	22.2	21.2	22.5	22.9	19.0	20.3	19.4	20.7	21.1
	6H	21.2	22.4	21.6	22.8	23.2	18.9	20.2	19.3	20.6	20.9
	8H	21.2	22.4	21.7	22.8	23.2	18.9	20.1	19.3	20.5	20.9
	12H	21.3	22.4	21.7	22.8	23.2	18.9	20.0	19.3	20.4	20.8
4H	2H	19.0	20.3	19.4	20.7	21.1	18.9	20.3	19.3	20.6	21.0
	3H	21.0	22.1	21.4	22.5	22.9	19.7	20.9	20.2	21.3	21.7
	4H	21.7	22.7	22.1	23.1	23.6	19.9	20.9	20.3	21.3	21.7
	6H	22.1	23.0	22.6	23.4	23.9	19.8	20.7	20.3	21.2	21.6
	8H	22.2	23.0	22.7	23.5	23.9	19.8	20.7	20.3	21.1	21.6
	12H	22.3	23.0	22.7	23.5	23.9	19.8	20.5	20.3	21.0	21.5
8H	4H	21.8	22.6	22.2	23.0	23.5	20.0	20.9	20.5	21.3	21.8
	6H	22.2	22.8	22.7	23.3	23.8	20.0	20.7	20.5	21.2	21.7
	8H	22.3	22.9	22.8	23.4	23.9	20.0	20.6	20.5	21.1	21.6
	12H	22.3	22.9	22.8	23.4	23.9	20.0	20.5	20.5	21.0	21.6
12H	4H	21.7	22.5	22.2	22.9	23.4	20.0	20.8	20.5	21.3	21.7
	6H	22.2	22.8	22.7	23.2	23.8	20.0	20.6	20.6	21.1	21.6
	8H	22.3	22.8	22.8	23.3	23.9	20.0	20.5	20.5	21.0	21.6

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 2001.872 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.)