



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L53-830-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-L53-830-DIM-UNV
[LAMPCAT] HLM 80 CRI 3000K 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	5114
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	150
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	5548	5414	5399
55	5346	5228	5206
65	5092	4979	2662
75	4094	2275	436
85	1840	805	604

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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	1921.797	1921.797	1921.797	1921.797	1921.797
5	1898.967	1892.444	1886.736	1894.075	1902.228
10	1860.645	1854.122	1883.475	1888.367	1869.614
15	1817.431	1836.184	1815.800	1801.124	1801.124
20	1762.802	1803.570	1745.680	1736.711	1736.711
25	1691.866	1700.835	1672.297	1667.405	1667.405
30	1601.361	1587.500	1576.901	1571.193	1569.562
35	1505.149	1491.288	1479.058	1477.427	1474.166
40	1399.153	1376.323	1369.800	1367.354	1365.723
45	1276.849	1250.758	1245.866	1244.235	1242.604
50	1134.162	1115.408	1109.701	1108.070	1108.070
55	997.997	977.613	975.982	971.906	971.906
60	843.079	827.587	825.957	822.695	820.249
65	700.392	686.531	684.900	527.536	366.095
70	534.874	522.644	418.278	283.744	289.452
75	344.896	344.896	191.609	165.517	36.691
80	182.640	118.227	33.430	27.722	27.722
85	52.183	27.722	22.830	17.122	17.122
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	693.72	N.A.	13.60
0-30	1467.00	N.A.	28.70
0-40	2395.18	N.A.	46.80
0-60	4230.5	N.A.	82.70
0-80	5081.00	N.A.	99.30
0-90	5114.28	N.A.	100.00
10-90	4933.94	N.A.	96.50
20-40	1701.46	N.A.	33.30
20-50	2664.96	N.A.	52.10
40-70	2441.76	N.A.	47.70
60-80	850.50	N.A.	16.60
70-80	244.06	N.A.	4.80
80-90	33.29	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	5114.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.34
10-20	513.38
20-30	773.28
30-40	928.18
40-50	963.50
50-60	871.82
60-70	606.43
70-80	244.06
80-90	33.29
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

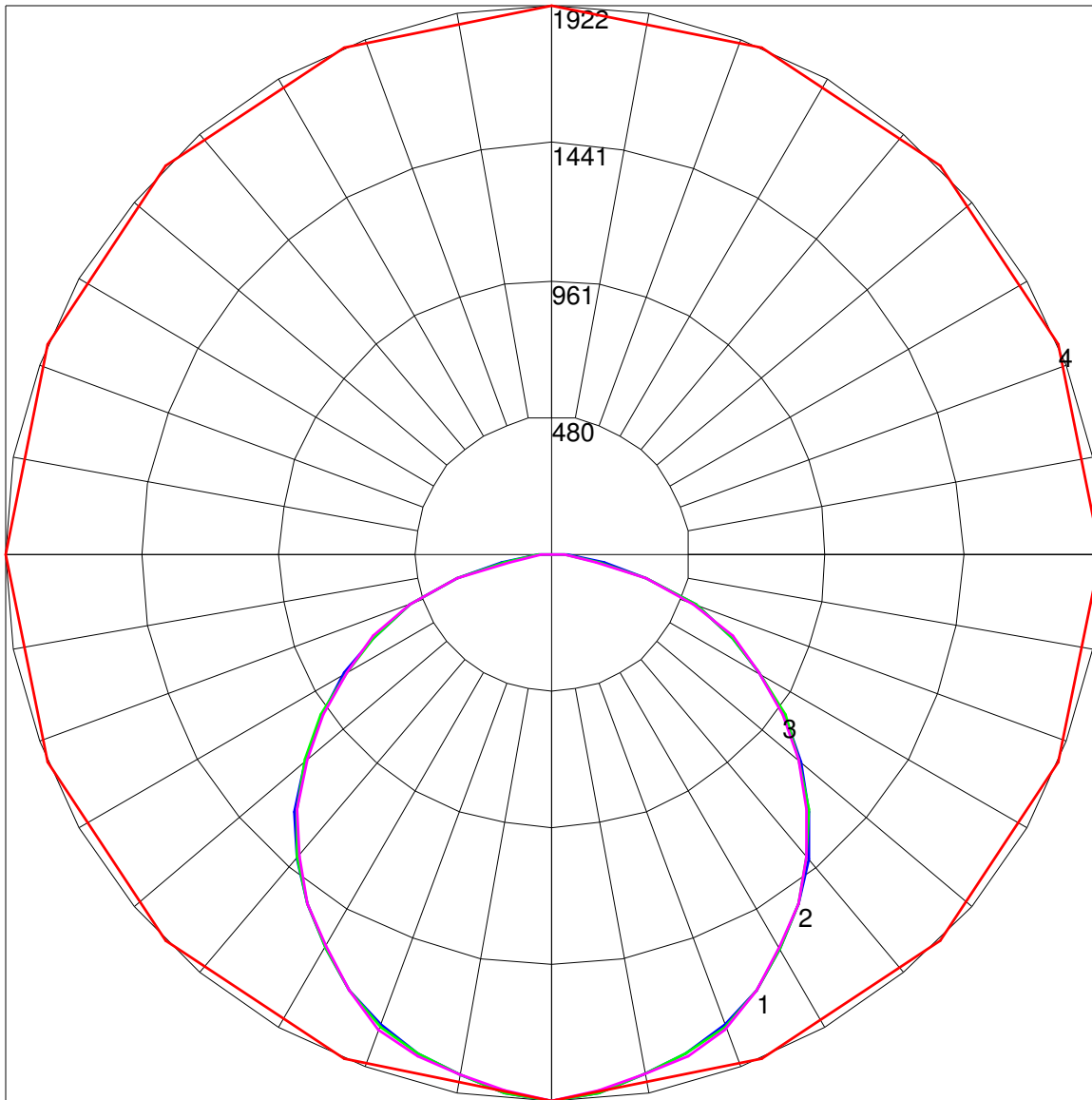
Reflectances

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	18.2	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	19.9	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	22.7	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 = 1921.797 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.)