



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L53-930-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-L53-930-DIM-UNV
[LAMPCAT] HLM 90 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	4209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
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	4566	4455	4443
55	4399	4302	4284
65	4190	4098	2190
75	3369	1872	358
85	1514	662	497

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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	1581.479	1581.479	1581.479	1581.479	1581.479
5	1562.691	1557.324	1552.627	1558.666	1565.375
10	1531.156	1525.788	1549.943	1553.969	1538.536
15	1495.594	1511.027	1494.252	1482.175	1482.175
20	1450.639	1484.188	1436.549	1429.168	1429.168
25	1392.265	1399.645	1376.161	1372.136	1372.136
30	1317.787	1306.380	1297.658	1292.961	1291.619
35	1238.612	1227.206	1217.141	1215.799	1213.116
40	1151.386	1132.599	1127.231	1125.218	1123.876
45	1050.741	1029.269	1025.244	1023.902	1022.560
50	933.321	917.888	913.191	911.850	911.850
55	821.268	804.494	803.152	799.797	799.797
60	693.784	681.036	679.694	677.010	674.997
65	576.364	564.958	563.616	434.118	301.266
70	440.157	430.092	344.208	233.498	238.195
75	283.821	283.821	157.678	136.207	30.194
80	150.297	97.291	27.510	22.813	22.813
85	42.942	22.813	18.787	14.090	14.090
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	570.88	N.A.	13.60
0-30	1207.22	N.A.	28.70
0-40	1971.03	N.A.	46.80
0-60	3481.35	N.A.	82.70
0-80	4181.24	N.A.	99.30
0-90	4208.63	N.A.	100.00
10-90	4060.22	N.A.	96.50
20-40	1400.16	N.A.	33.30
20-50	2193.04	N.A.	52.10
40-70	2009.36	N.A.	47.70
60-80	699.89	N.A.	16.60
70-80	200.84	N.A.	4.80
80-90	27.39	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	4208.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.41
10-20	422.47
20-30	636.34
30-40	763.81
40-50	792.88
50-60	717.43
60-70	499.05
70-80	200.84
80-90	27.39
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

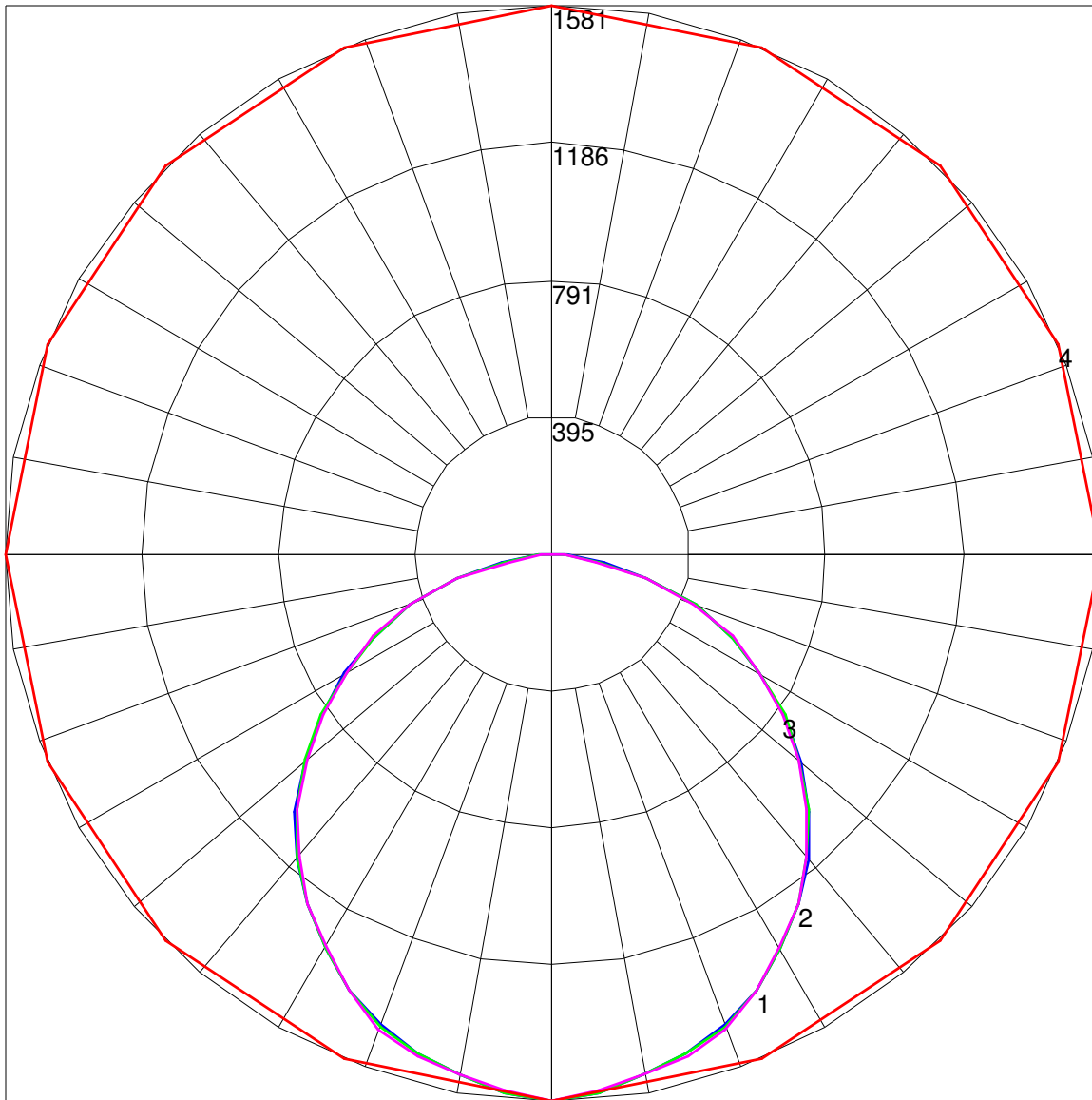
Reflectances

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	17.5	19.1	17.9	19.4	19.7	17.4	19.0	17.8	19.4	19.7
	3H	19.4	20.8	19.8	21.2	21.5	18.1	19.6	18.5	19.9	20.3
	4H	20.0	21.4	20.4	21.7	22.1	18.2	19.5	18.6	19.9	20.3
	6H	20.4	21.6	20.8	22.0	22.4	18.1	19.4	18.5	19.8	20.1
	8H	20.4	21.6	20.9	22.0	22.4	18.1	19.3	18.5	19.7	20.1
	12H	20.5	21.6	20.9	22.0	22.4	18.1	19.2	18.5	19.6	20.0
4H	2H	18.2	19.5	18.6	19.9	20.3	18.1	19.5	18.5	19.8	20.2
	3H	20.2	21.3	20.6	21.7	22.1	18.9	20.1	19.4	20.5	20.9
	4H	20.9	21.9	21.3	22.3	22.8	19.1	20.1	19.5	20.5	20.9
	6H	21.3	22.2	21.8	22.6	23.1	19.0	19.9	19.5	20.4	20.8
	8H	21.4	22.2	21.9	22.7	23.1	19.0	19.9	19.5	20.3	20.8
	12H	21.5	22.2	21.9	22.7	23.1	19.0	19.7	19.5	20.2	20.7
8H	4H	21.0	21.8	21.4	22.2	22.7	19.2	20.1	19.7	20.5	21.0
	6H	21.4	22.0	21.9	22.5	23.0	19.2	19.9	19.7	20.4	20.9
	8H	21.5	22.1	22.0	22.6	23.1	19.2	19.8	19.7	20.3	20.8
	12H	21.5	22.1	22.0	22.6	23.1	19.2	19.7	19.7	20.2	20.8
12H	4H	20.9	21.7	21.4	22.1	22.6	19.2	20.0	19.7	20.4	20.9
	6H	21.4	22.0	21.9	22.4	23.0	19.2	19.8	19.8	20.3	20.8
	8H	21.5	22.0	22.0	22.5	23.1	19.2	19.7	19.7	20.2	20.8

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1581.479 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.)