



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-4-L115-950-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-L115-950-DIM-UNV
[LAMPCAT] HLM 90 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	9901
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	73.1
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	10741	10480	10453
55	10350	10121	10079
65	9858	9640	5153
75	7927	4404	843
85	3561	1558	1169

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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	3720.513	3720.513	3720.513	3720.513	3720.513
5	3676.315	3663.687	3652.637	3666.844	3682.629
10	3602.126	3589.498	3646.324	3655.794	3619.489
15	3518.465	3554.771	3515.308	3486.896	3486.896
20	3412.706	3491.631	3379.558	3362.194	3362.194
25	3275.377	3292.741	3237.493	3228.022	3228.022
30	3100.164	3073.330	3052.809	3041.760	3038.603
35	2913.902	2887.067	2863.390	2860.233	2853.919
40	2708.697	2664.500	2651.872	2647.136	2643.979
45	2471.923	2421.411	2411.940	2408.783	2405.626
50	2195.687	2159.381	2148.332	2145.175	2145.175
55	1932.078	1892.616	1889.459	1881.566	1881.566
60	1632.164	1602.172	1599.015	1592.701	1587.966
65	1355.927	1329.093	1325.936	1021.286	708.744
70	1035.493	1011.815	809.768	549.316	560.366
75	667.703	667.703	370.946	320.434	71.032
80	353.583	228.882	64.718	53.669	53.669
85	101.024	53.669	44.198	33.148	33.148
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1343.02	N.A.	13.60
0-30	2840.05	N.A.	28.70
0-40	4636.96	N.A.	46.80
0-60	8190.07	N.A.	82.70
0-80	9836.59	N.A.	99.30
0-90	9901.03	N.A.	100.00
10-90	9551.9	N.A.	96.50
20-40	3293.95	N.A.	33.30
20-50	5159.24	N.A.	52.10
40-70	4727.13	N.A.	47.70
60-80	1646.52	N.A.	16.60
70-80	472.49	N.A.	4.80
80-90	64.44	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	9901.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	349.13
10-20	993.89
20-30	1497.03
30-40	1796.91
40-50	1865.3
50-60	1687.8
60-70	1174.03
70-80	472.49
80-90	64.44
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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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UGR TABLE - CORRECTED

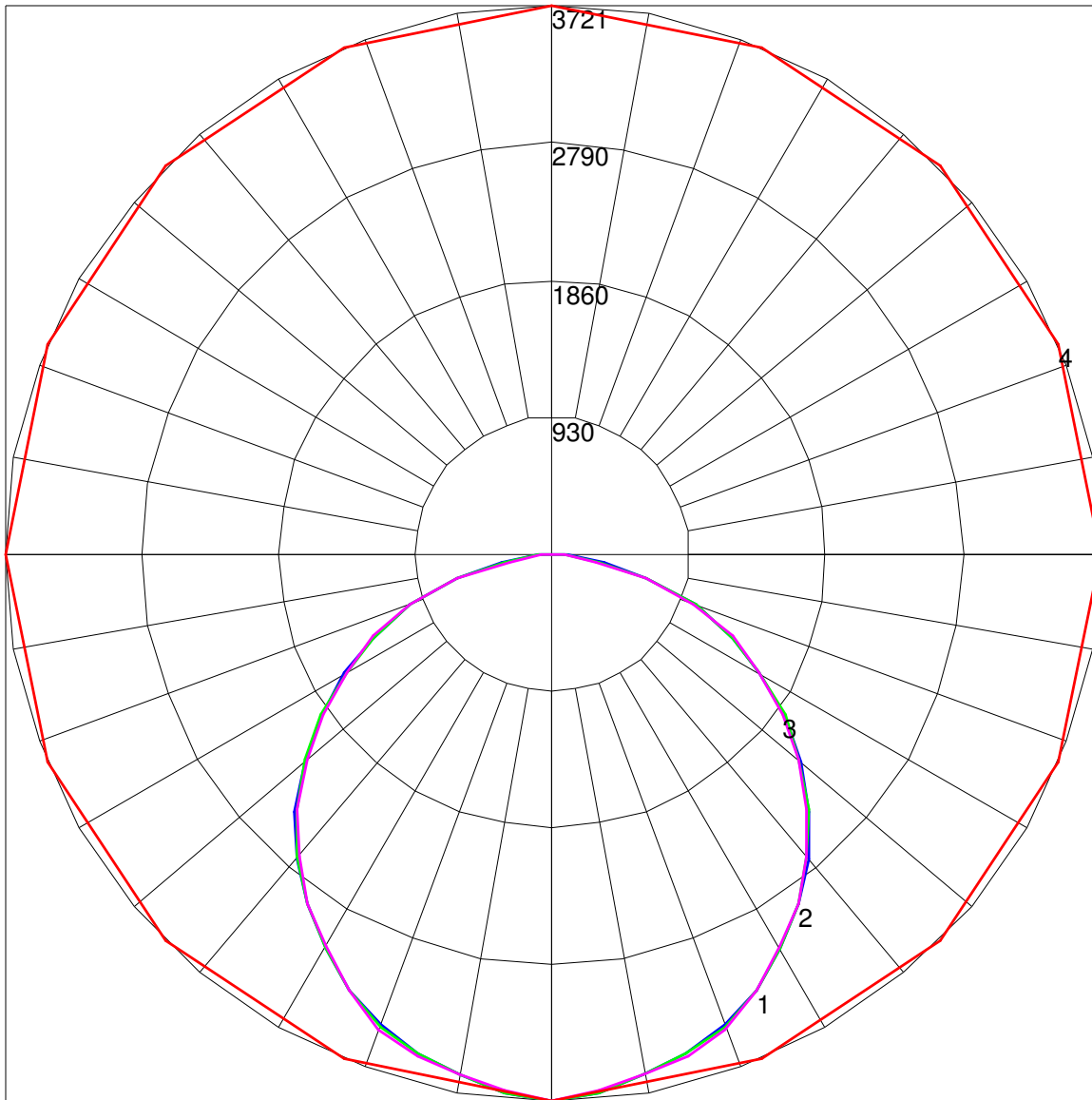
Reflectances

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	20.5	22.1	20.9	22.4	22.7	20.4	22.0	20.8	22.4	22.7
	3H	22.4	23.8	22.8	24.2	24.5	21.1	22.6	21.5	22.9	23.3
	4H	23.0	24.4	23.4	24.7	25.1	21.2	22.5	21.6	22.9	23.3
	6H	23.4	24.6	23.8	25.0	25.4	21.1	22.4	21.5	22.8	23.1
	8H	23.4	24.6	23.9	25.0	25.4	21.1	22.3	21.5	22.7	23.1
	12H	23.5	24.6	23.9	25.0	25.4	21.1	22.2	21.5	22.6	23.0
4H	2H	21.2	22.5	21.6	22.9	23.3	21.1	22.5	21.5	22.8	23.2
	3H	23.2	24.3	23.6	24.7	25.1	21.9	23.1	22.4	23.5	23.9
	4H	23.9	24.9	24.3	25.3	25.8	22.1	23.1	22.5	23.5	23.9
	6H	24.3	25.2	24.8	25.6	26.1	22.0	22.9	22.5	23.4	23.8
	8H	24.4	25.2	24.9	25.7	26.1	22.0	22.9	22.5	23.3	23.8
	12H	24.5	25.2	24.9	25.7	26.1	22.0	22.7	22.5	23.2	23.7
8H	4H	24.0	24.8	24.4	25.2	25.7	22.2	23.1	22.7	23.5	24.0
	6H	24.4	25.0	24.9	25.5	26.0	22.2	22.9	22.7	23.4	23.9
	8H	24.5	25.1	25.0	25.6	26.1	22.2	22.8	22.7	23.3	23.8
	12H	24.5	25.1	25.0	25.6	26.1	22.2	22.7	22.7	23.2	23.8
12H	4H	23.9	24.7	24.4	25.1	25.6	22.2	23.0	22.7	23.4	23.9
	6H	24.4	25.0	24.9	25.4	26.0	22.2	22.8	22.8	23.3	23.8
	8H	24.5	25.0	25.0	25.5	26.1	22.2	22.7	22.7	23.2	23.8

Maximum UGR = 26.1

POLAR GRAPH



Maximum Candela = 3720.513 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.)