



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L230-940-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] 2024-01-09
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 8' SUSPENDED INDUSTRIAL LED LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] 0-10V DIMMING DRIVER
[LUMCAT] 80-8-L230-940-DIM-UNV
[LAMPCAT] HLM 22 INCH LED ARRAYS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19111
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	146.1
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)	8.00 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	10366	10115	10088
55	9989	9768	9728
65	9514	9304	4973
75	7650	4250	814
85	3437	1504	1128

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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	7181.453	7181.453	7181.453	7181.453	7181.453
5	7096.141	7071.766	7050.438	7077.860	7108.329
10	6952.939	6928.564	7038.251	7056.532	6986.454
15	6791.455	6861.533	6785.361	6730.518	6730.518
20	6587.315	6739.658	6523.331	6489.816	6489.816
25	6322.238	6355.754	6249.114	6230.833	6230.833
30	5984.037	5932.240	5892.631	5871.303	5865.209
35	5624.507	5572.710	5527.007	5520.914	5508.726
40	5228.415	5143.103	5118.728	5109.587	5103.494
45	4771.386	4673.886	4655.605	4649.511	4643.418
50	4238.185	4168.107	4146.779	4140.685	4140.685
55	3729.359	3653.187	3647.094	3631.859	3631.859
60	3150.455	3092.565	3086.471	3074.284	3065.143
65	2617.254	2565.458	2559.364	1971.320	1368.041
70	1998.741	1953.038	1563.040	1060.308	1081.636
75	1288.823	1288.823	716.013	618.513	137.109
80	682.497	441.795	124.921	103.593	103.593
85	194.999	103.593	85.312	63.984	63.984
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2592.33	N.A.	13.60
0-30	5481.96	N.A.	28.70
0-40	8950.42	N.A.	46.80
0-60	15808.73	N.A.	82.70
0-80	18986.9	N.A.	99.30
0-90	19111.28	N.A.	100.00
10-90	18437.38	N.A.	96.50
20-40	6358.08	N.A.	33.30
20-50	9958.54	N.A.	52.10
40-70	9124.46	N.A.	47.70
60-80	3178.17	N.A.	16.60
70-80	912.02	N.A.	4.80
80-90	124.38	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	19111.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	673.90
10-20	1918.43
20-30	2889.62
30-40	3468.46
40-50	3600.46
50-60	3257.85
60-70	2266.15
70-80	912.02
80-90	124.38
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

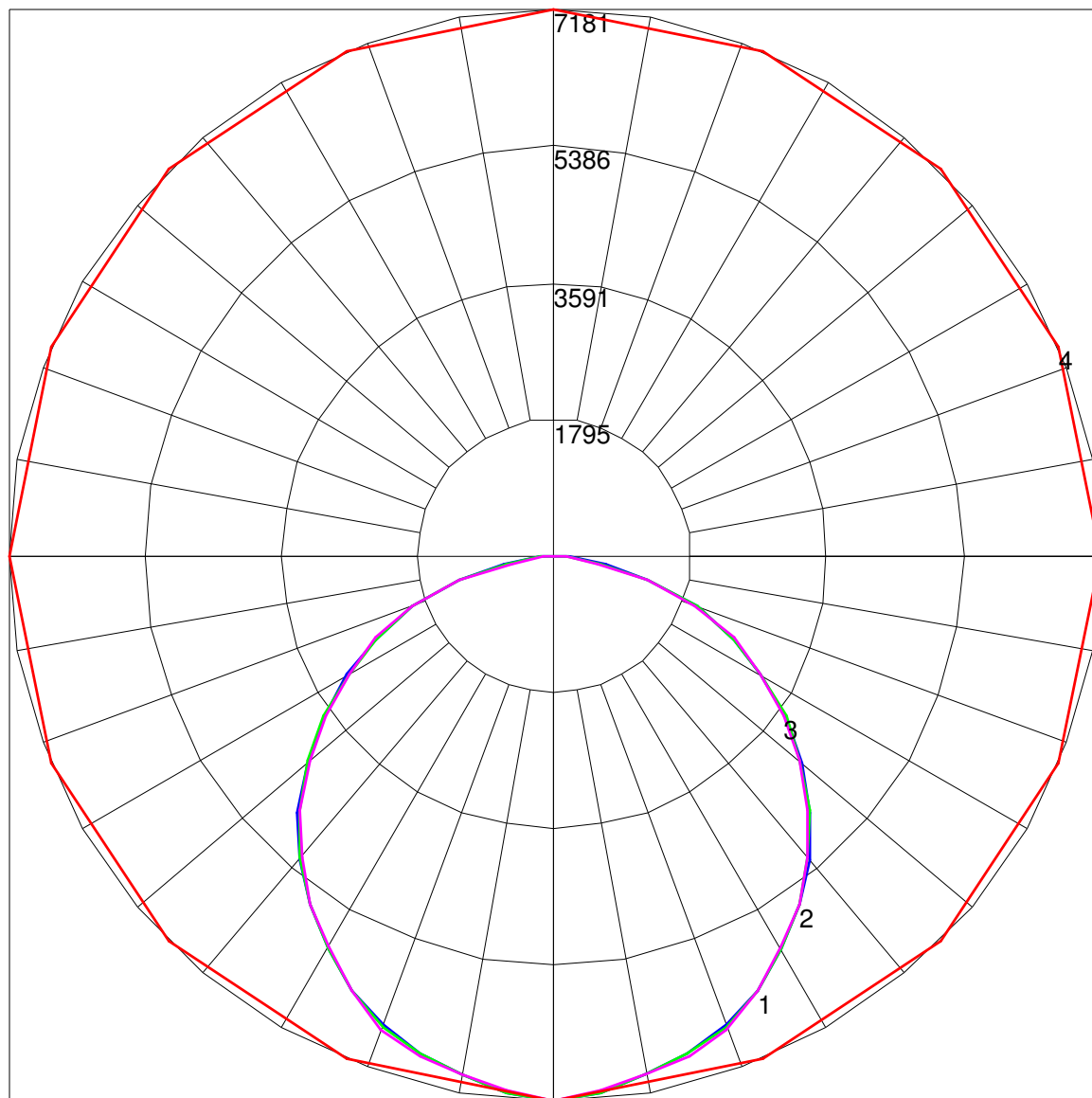
Reflectances

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	20.3	21.9	20.7	22.2	22.5	20.2	21.8	20.6	22.1	22.5
	3H	22.2	23.6	22.6	24.0	24.3	20.9	22.4	21.3	22.7	23.1
	4H	22.8	24.2	23.2	24.5	24.9	21.0	22.3	21.4	22.7	23.0
	6H	23.2	24.4	23.6	24.8	25.2	20.9	22.2	21.3	22.5	22.9
	8H	23.2	24.4	23.7	24.8	25.2	20.9	22.1	21.3	22.5	22.9
	12H	23.3	24.4	23.7	24.8	25.2	20.9	22.0	21.3	22.4	22.8
4H	2H	21.0	22.3	21.4	22.7	23.0	20.9	22.3	21.3	22.6	23.0
	3H	23.0	24.1	23.4	24.5	24.9	21.7	22.9	22.1	23.3	23.7
	4H	23.7	24.7	24.1	25.1	25.6	21.9	22.9	22.3	23.3	23.7
	6H	24.1	25.0	24.5	25.4	25.9	21.8	22.7	22.3	23.2	23.6
	8H	24.2	25.0	24.7	25.5	25.9	21.8	22.6	22.3	23.1	23.6
	12H	24.2	25.0	24.7	25.4	25.9	21.8	22.5	22.3	23.0	23.5
8H	4H	23.7	24.6	24.2	25.0	25.5	22.0	22.9	22.5	23.3	23.8
	6H	24.2	24.8	24.6	25.3	25.8	22.0	22.7	22.5	23.2	23.7
	8H	24.3	24.9	24.8	25.4	25.9	22.0	22.6	22.5	23.1	23.6
	12H	24.3	24.9	24.8	25.4	25.9	22.0	22.5	22.5	23.0	23.6
12H	4H	23.7	24.4	24.2	24.9	25.4	22.0	22.8	22.5	23.2	23.7
	6H	24.1	24.7	24.7	25.2	25.7	22.0	22.6	22.5	23.1	23.6
	8H	24.3	24.8	24.8	25.3	25.8	22.0	22.5	22.5	23.0	23.6

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 7181.453 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.)