



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-8-L106-940-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-L106-940-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	8843
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	66.4
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	4797	4680	4668
55	4622	4520	4501
65	4402	4305	2301
75	3540	1967	377
85	1591	696	522

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 80-8-L106-940-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	3323.106	3323.106	3323.106	3323.106	3323.106
5	3283.629	3272.350	3262.481	3275.170	3289.269
10	3217.364	3206.085	3256.841	3265.301	3232.873
15	3142.640	3175.068	3139.821	3114.443	3114.443
20	3048.178	3118.672	3018.570	3003.062	3003.062
25	2925.518	2941.026	2891.680	2883.221	2883.221
30	2769.020	2745.052	2726.723	2716.854	2714.034
35	2602.653	2578.685	2557.537	2554.717	2549.078
40	2419.368	2379.891	2368.612	2364.382	2361.562
45	2207.885	2162.768	2154.309	2151.489	2148.669
50	1961.154	1928.727	1918.858	1916.038	1916.038
55	1725.703	1690.456	1687.636	1680.587	1680.587
60	1457.824	1431.036	1428.217	1422.577	1418.347
65	1211.094	1187.126	1184.306	912.198	633.040
70	924.887	903.738	723.273	490.641	500.510
75	596.383	596.383	331.324	286.207	63.445
80	315.815	204.434	57.805	47.936	47.936
85	90.233	47.936	39.477	29.608	29.608
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-940-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1199.56	N.A.	13.60
0-30	2536.69	N.A.	28.70
0-40	4141.67	N.A.	46.80
0-60	7315.24	N.A.	82.70
0-80	8785.89	N.A.	99.30
0-90	8843.45	N.A.	100.00
10-90	8531.61	N.A.	96.50
20-40	2942.1	N.A.	33.30
20-50	4608.16	N.A.	52.10
40-70	4222.2	N.A.	47.70
60-80	1470.65	N.A.	16.60
70-80	422.02	N.A.	4.80
80-90	57.56	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	8843.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	311.84
10-20	887.72
20-30	1337.13
30-40	1604.98
40-50	1666.06
50-60	1507.52
60-70	1048.63
70-80	422.02
80-90	57.56
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-940-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-940-DIM-UNV_.IES

UGR TABLE - CORRECTED

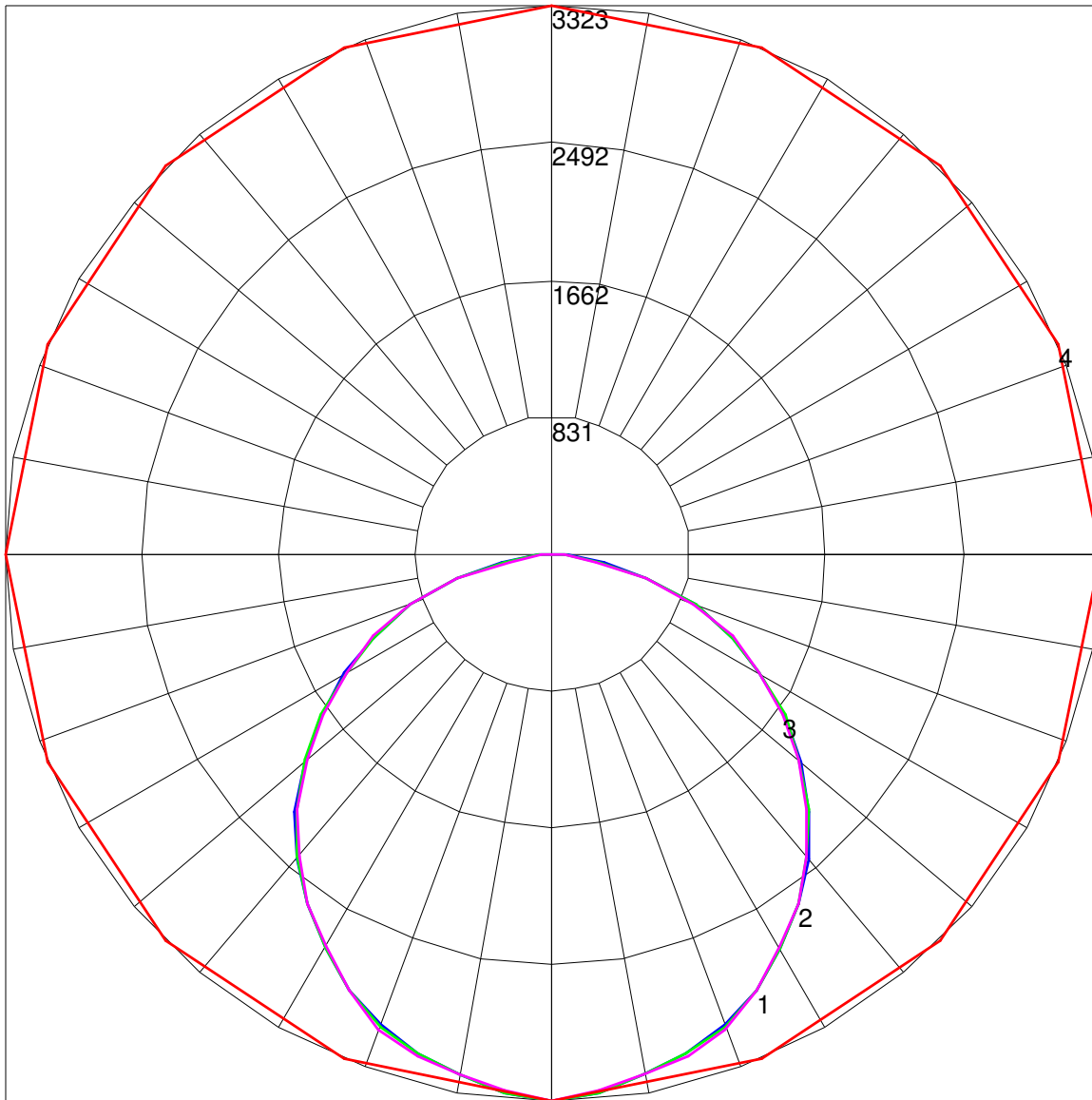
Reflectances

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	17.7	19.3	18.1	19.6	19.9	17.6	19.2	18.0	19.5	19.9
	3H	19.6	21.0	20.0	21.4	21.7	18.3	19.8	18.7	20.1	20.5
	4H	20.2	21.6	20.6	21.9	22.3	18.4	19.7	18.8	20.1	20.4
	6H	20.6	21.8	21.0	22.2	22.6	18.3	19.6	18.7	19.9	20.3
	8H	20.6	21.8	21.1	22.2	22.6	18.3	19.5	18.7	19.9	20.3
	12H	20.7	21.8	21.1	22.2	22.6	18.3	19.4	18.7	19.8	20.2
4H	2H	18.4	19.7	18.8	20.1	20.4	18.3	19.7	18.7	20.0	20.4
	3H	20.4	21.5	20.8	21.9	22.3	19.1	20.3	19.5	20.7	21.1
	4H	21.1	22.1	21.5	22.5	23.0	19.3	20.3	19.7	20.7	21.1
	6H	21.5	22.4	21.9	22.8	23.3	19.2	20.1	19.7	20.6	21.0
	8H	21.6	22.4	22.1	22.9	23.3	19.2	20.0	19.7	20.5	21.0
	12H	21.6	22.4	22.1	22.8	23.3	19.2	19.9	19.7	20.4	20.9
8H	4H	21.1	22.0	21.6	22.4	22.9	19.4	20.3	19.9	20.7	21.2
	6H	21.6	22.2	22.1	22.7	23.2	19.4	20.1	19.9	20.6	21.1
	8H	21.7	22.3	22.2	22.8	23.3	19.4	20.0	19.9	20.5	21.0
	12H	21.7	22.3	22.2	22.8	23.3	19.4	19.9	19.9	20.4	21.0
12H	4H	21.1	21.8	21.6	22.3	22.8	19.4	20.2	19.9	20.6	21.1
	6H	21.5	22.1	22.1	22.6	23.1	19.4	20.0	19.9	20.5	21.0
	8H	21.7	22.2	22.2	22.7	23.2	19.4	19.9	19.9	20.4	21.0

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 3323.106 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.)