



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-930-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] 2024-01-09
[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-L106-930-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	8417
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	4566	4455	4443
55	4399	4302	4284
65	4190	4098	2190
75	3369	1872	358
85	1514	662	497

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-930-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	3162.957	3162.957	3162.957	3162.957	3162.957
5	3125.383	3114.647	3105.254	3117.331	3130.751
10	3062.312	3051.576	3099.886	3107.938	3077.073
15	2991.189	3022.053	2988.505	2964.350	2964.350
20	2901.279	2968.376	2873.098	2858.336	2858.336
25	2784.530	2799.291	2752.323	2744.271	2744.271
30	2635.574	2612.761	2595.316	2585.922	2583.238
35	2477.225	2454.412	2434.283	2431.599	2426.231
40	2302.772	2265.198	2254.462	2250.437	2247.753
45	2101.481	2058.539	2050.487	2047.803	2045.120
50	1866.641	1835.777	1826.383	1823.699	1823.699
55	1642.537	1608.988	1606.305	1599.595	1599.595
60	1387.568	1362.071	1359.387	1354.019	1349.994
65	1152.728	1129.915	1127.231	868.236	602.532
70	880.314	860.185	688.416	466.996	476.389
75	567.641	567.641	315.356	272.414	60.387
80	300.595	194.582	55.020	45.626	45.626
85	85.884	45.626	37.574	28.181	28.181
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-930-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1141.75	N.A.	13.60
0-30	2414.44	N.A.	28.70
0-40	3942.07	N.A.	46.80
0-60	6962.7	N.A.	82.70
0-80	8362.48	N.A.	99.30
0-90	8417.26	N.A.	100.00
10-90	8120.45	N.A.	96.50
20-40	2800.32	N.A.	33.30
20-50	4386.08	N.A.	52.10
40-70	4018.72	N.A.	47.70
60-80	1399.77	N.A.	16.60
70-80	401.68	N.A.	4.80
80-90	54.78	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	8417.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	296.81
10-20	844.94
20-30	1272.69
30-40	1527.63
40-50	1585.76
50-60	1434.87
60-70	998.09
70-80	401.68
80-90	54.78
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-L106-930-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	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L106-930-DIM-UNV_.IES

UGR TABLE - CORRECTED

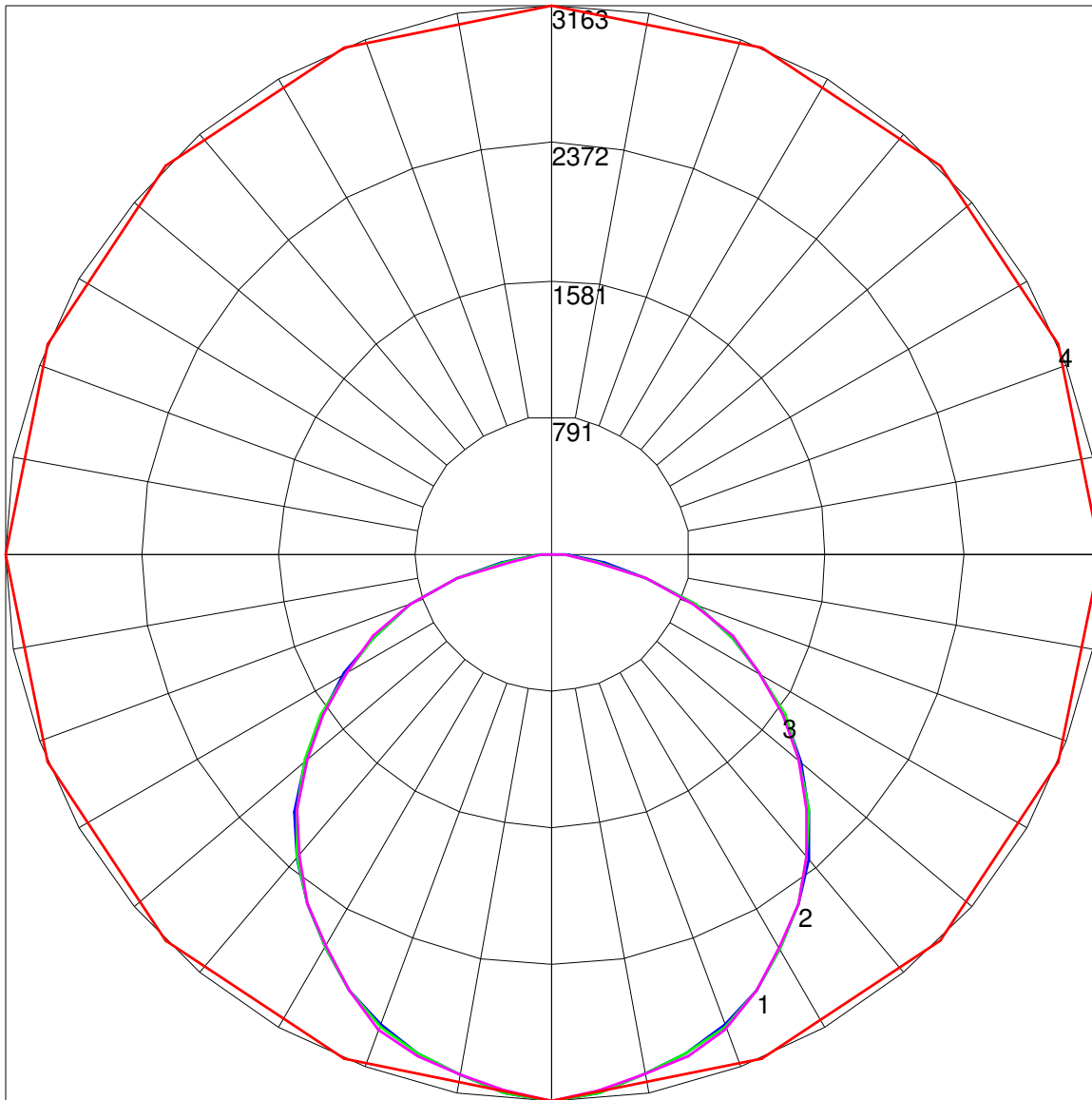
Reflectances

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	17.5	19.1	17.9	19.4	19.7	17.4	19.0	17.8	19.3	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	20.2
	6H	20.4	21.6	20.8	22.0	22.4	18.1	19.4	18.5	19.7	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	20.2	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	19.3	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	21.7	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	19.8	19.5	20.3	20.8
	12H	21.4	22.2	21.9	22.6	23.1	19.0	19.7	19.5	20.2	20.7
8H	4H	20.9	21.8	21.4	22.2	22.7	19.2	20.1	19.7	20.5	21.0
	6H	21.4	22.0	21.8	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	21.6	21.4	22.1	22.6	19.2	20.0	19.7	20.4	20.9
	6H	21.3	21.9	21.9	22.4	22.9	19.2	19.8	19.7	20.3	20.8
	8H	21.5	22.0	22.0	22.5	23.0	19.2	19.7	19.7	20.2	20.8

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 3162.957 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.)