



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L230-827-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-L230-827-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	21644
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	11740	11455	11425
55	11312	11063	11017
65	10775	10537	5632
75	8664	4813	922
85	3893	1703	1277

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L230-827-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	8133.213	8133.213	8133.213	8133.213	8133.213
5	8036.594	8008.989	7984.834	8015.890	8050.397
10	7874.413	7846.808	7971.032	7991.736	7912.370
15	7691.528	7770.893	7684.627	7622.515	7622.515
20	7460.334	7632.867	7387.870	7349.912	7349.912
25	7160.126	7198.083	7077.310	7056.606	7056.606
30	6777.102	6718.441	6673.582	6649.428	6642.526
35	6369.924	6311.263	6259.503	6252.602	6238.799
40	5921.338	5824.719	5797.114	5786.762	5779.861
45	5403.738	5293.317	5272.613	5265.712	5258.811
50	4799.872	4720.507	4696.352	4689.451	4689.451
55	4223.612	4137.345	4130.444	4113.190	4113.190
60	3567.986	3502.423	3495.522	3481.719	3471.367
65	2964.120	2905.458	2898.557	2232.579	1549.348
70	2263.635	2211.875	1770.190	1200.831	1224.985
75	1459.630	1459.630	810.906	700.485	155.280
80	772.949	500.346	141.477	117.323	117.323
85	220.842	117.323	96.619	72.464	72.464
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L230-827-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2935.9	N.A.	13.60
0-30	6208.48	N.A.	28.70
0-40	10136.62	N.A.	46.80
0-60	17903.86	N.A.	82.70
0-80	21503.23	N.A.	99.30
0-90	21644.1	N.A.	100.00
10-90	20880.89	N.A.	96.50
20-40	7200.72	N.A.	33.30
20-50	11278.35	N.A.	52.10
40-70	10333.73	N.A.	47.70
60-80	3599.37	N.A.	16.60
70-80	1032.89	N.A.	4.80
80-90	140.87	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	21644.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	763.22
10-20	2172.68
20-30	3272.59
30-40	3928.13
40-50	4077.63
50-60	3689.62
60-70	2566.49
70-80	1032.89
80-90	140.87
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-L230-827-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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L230-827-DIM-UNV_.IES

UGR TABLE - CORRECTED

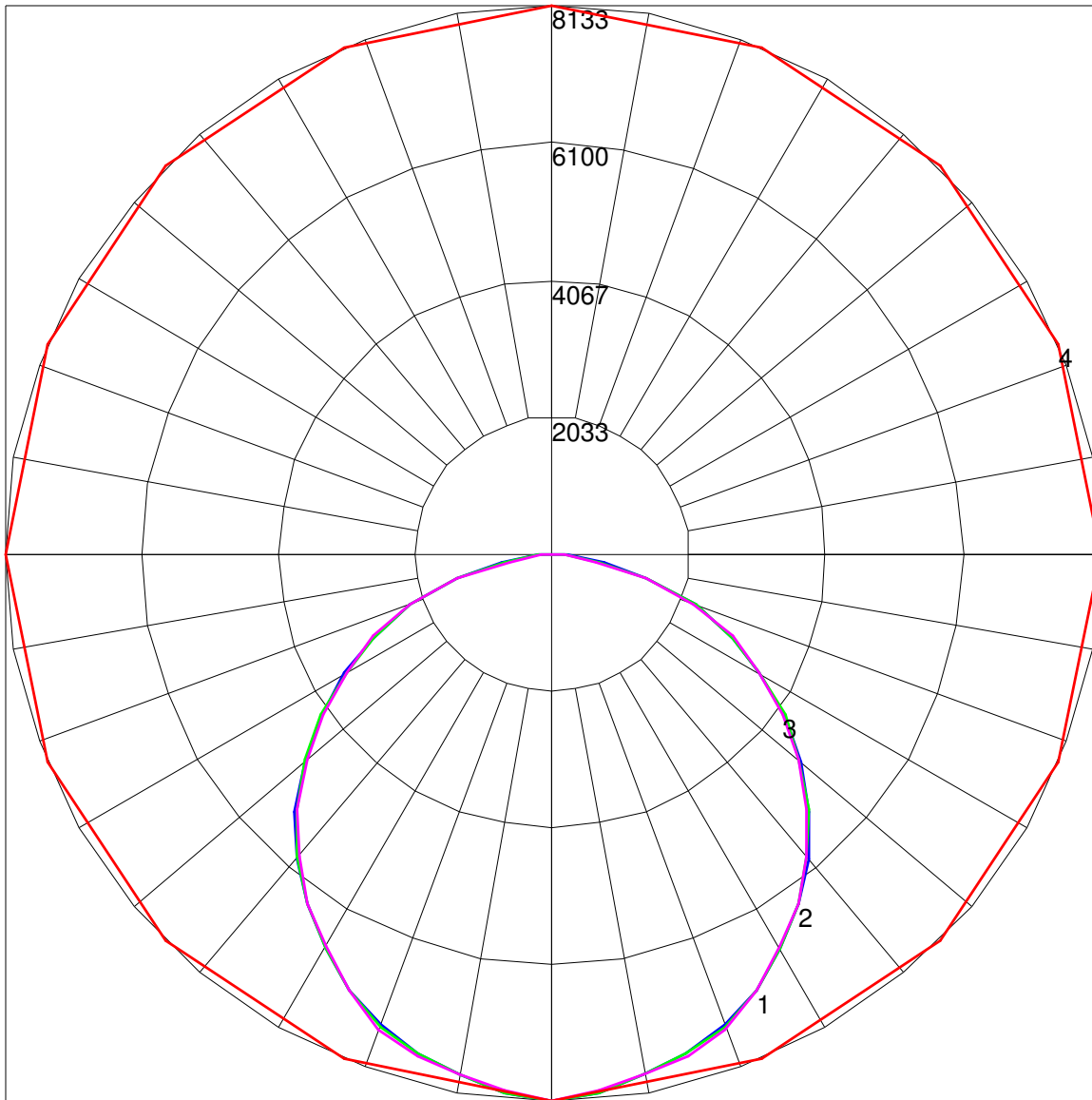
Reflectances

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	20.8	22.4	21.2	22.7	23.0	20.7	22.3	21.1	22.6	23.0
	3H	22.7	24.1	23.1	24.5	24.8	21.4	22.9	21.8	23.2	23.6
	4H	23.3	24.7	23.7	25.0	25.4	21.5	22.8	21.9	23.2	23.5
	6H	23.7	24.9	24.1	25.3	25.7	21.4	22.7	21.8	23.0	23.4
	8H	23.7	24.9	24.2	25.3	25.7	21.4	22.6	21.8	23.0	23.4
	12H	23.8	24.9	24.2	25.3	25.7	21.4	22.5	21.8	22.9	23.3
4H	2H	21.5	22.8	21.9	23.2	23.5	21.4	22.8	21.8	23.1	23.5
	3H	23.5	24.6	23.9	25.0	25.4	22.2	23.4	22.6	23.8	24.2
	4H	24.2	25.2	24.6	25.6	26.1	22.4	23.4	22.8	23.8	24.2
	6H	24.6	25.5	25.0	25.9	26.4	22.3	23.2	22.8	23.7	24.1
	8H	24.7	25.5	25.2	26.0	26.4	22.3	23.1	22.8	23.6	24.1
	12H	24.7	25.5	25.2	25.9	26.4	22.3	23.0	22.8	23.5	24.0
8H	4H	24.2	25.1	24.7	25.5	26.0	22.5	23.4	23.0	23.8	24.3
	6H	24.7	25.3	25.1	25.8	26.3	22.5	23.2	23.0	23.7	24.2
	8H	24.8	25.4	25.3	25.9	26.4	22.5	23.1	23.0	23.6	24.1
	12H	24.8	25.4	25.3	25.9	26.4	22.5	23.0	23.0	23.5	24.1
12H	4H	24.2	24.9	24.7	25.4	25.9	22.5	23.3	23.0	23.7	24.2
	6H	24.6	25.2	25.2	25.7	26.2	22.5	23.1	23.0	23.6	24.1
	8H	24.8	25.3	25.3	25.8	26.3	22.5	23.0	23.0	23.5	24.1

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 8133.213 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.)