



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L65-830-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-L65-830-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	6397
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	158
Total Luminaire Watts	40.5
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	3470	3386	3377
55	3343	3270	3256
65	3185	3114	1665
75	2561	1423	272
85	1150	503	378

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 80-8-L65-830-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	2403.779	2403.779	2403.779	2403.779	2403.779
5	2375.224	2367.065	2359.926	2369.105	2379.303
10	2327.291	2319.132	2355.847	2361.966	2338.509
15	2273.239	2296.696	2271.199	2252.842	2252.842
20	2204.909	2255.902	2183.493	2172.274	2172.274
25	2116.183	2127.401	2091.706	2085.587	2085.587
30	2002.980	1985.642	1972.384	1965.245	1963.206
35	1882.638	1865.300	1850.003	1847.963	1843.883
40	1750.058	1721.502	1713.343	1710.283	1708.244
45	1597.080	1564.445	1558.326	1556.287	1554.247
50	1418.607	1395.151	1388.012	1385.972	1385.972
55	1248.293	1222.797	1220.757	1215.658	1215.658
60	1054.522	1035.145	1033.105	1029.026	1025.966
65	876.049	858.711	856.672	659.841	457.911
70	669.020	653.722	523.182	354.907	362.046
75	431.395	431.395	239.664	207.029	45.893
80	228.446	147.878	41.814	34.675	34.675
85	65.270	34.675	28.556	21.417	21.417
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L65-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	867.71	N.A.	13.60
0-30	1834.92	N.A.	28.70
0-40	2995.89	N.A.	46.80
0-60	5291.5	N.A.	82.70
0-80	6355.3	N.A.	99.30
0-90	6396.94	N.A.	100.00
10-90	6171.37	N.A.	96.50
20-40	2128.18	N.A.	33.30
20-50	3333.33	N.A.	52.10
40-70	3054.14	N.A.	47.70
60-80	1063.8	N.A.	16.60
70-80	305.27	N.A.	4.80
80-90	41.63	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	6396.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	225.57
10-20	642.14
20-30	967.22
30-40	1160.96
40-50	1205.15
50-60	1090.47
60-70	758.53
70-80	305.27
80-90	41.63
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-L65-830-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	39	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-L65-830-DIM-UNV_.IES

UGR TABLE - CORRECTED

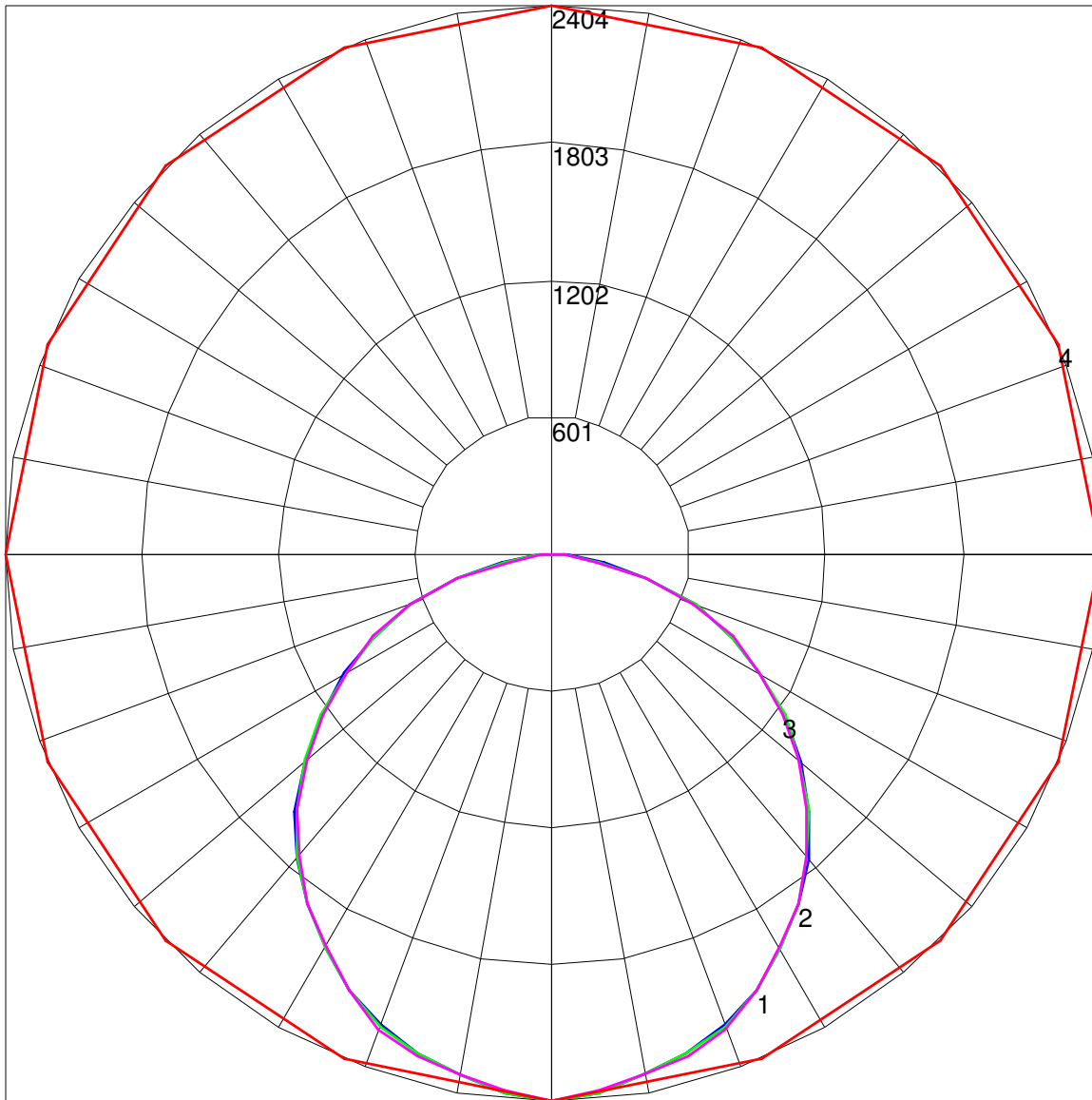
Reflectances

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	16.5	18.1	16.9	18.4	18.7	16.4	18.0	16.8	18.3	18.7
	3H	18.4	19.8	18.8	20.2	20.5	17.1	18.6	17.5	18.9	19.3
	4H	19.0	20.4	19.4	20.7	21.1	17.2	18.5	17.6	18.9	19.2
	6H	19.4	20.6	19.8	21.0	21.4	17.1	18.4	17.5	18.7	19.1
	8H	19.4	20.6	19.9	21.0	21.4	17.1	18.3	17.5	18.7	19.1
	12H	19.5	20.6	19.9	21.0	21.4	17.1	18.2	17.5	18.6	19.0
4H	2H	17.2	18.5	17.6	18.9	19.2	17.1	18.5	17.5	18.8	19.2
	3H	19.2	20.3	19.6	20.7	21.1	17.9	19.1	18.3	19.5	19.9
	4H	19.9	20.9	20.3	21.3	21.8	18.1	19.1	18.5	19.5	19.9
	6H	20.3	21.2	20.7	21.6	22.1	18.0	18.9	18.5	19.4	19.8
	8H	20.4	21.2	20.9	21.7	22.1	18.0	18.8	18.5	19.3	19.8
	12H	20.4	21.2	20.9	21.6	22.1	18.0	18.7	18.5	19.2	19.7
8H	4H	19.9	20.8	20.4	21.2	21.7	18.2	19.1	18.7	19.5	20.0
	6H	20.4	21.0	20.9	21.5	22.0	18.2	18.9	18.7	19.4	19.9
	8H	20.5	21.1	21.0	21.6	22.1	18.2	18.8	18.7	19.3	19.8
	12H	20.5	21.1	21.0	21.6	22.1	18.2	18.7	18.7	19.2	19.8
12H	4H	19.9	20.6	20.4	21.1	21.6	18.2	19.0	18.7	19.4	19.9
	6H	20.3	20.9	20.9	21.4	21.9	18.2	18.8	18.7	19.3	19.8
	8H	20.5	21.0	21.0	21.5	22.0	18.2	18.7	18.7	19.2	19.8

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 2403.779 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.)