



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L65-827-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-L65-827-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	6264
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	155
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	3398	3315	3306
55	3274	3202	3188
65	3118	3049	1630
75	2507	1393	267
85	1127	493	370

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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	2353.700	2353.700	2353.700	2353.700	2353.700
5	2325.740	2317.751	2310.761	2319.748	2329.734
10	2278.805	2270.817	2306.766	2312.758	2289.790
15	2225.880	2248.847	2223.882	2205.908	2205.908
20	2158.973	2208.903	2138.003	2127.018	2127.018
25	2072.095	2083.080	2048.129	2042.137	2042.137
30	1961.251	1944.274	1931.293	1924.302	1922.305
35	1843.416	1826.440	1811.461	1809.463	1805.469
40	1713.598	1685.637	1677.648	1674.652	1672.655
45	1563.808	1531.853	1525.861	1523.864	1521.867
50	1389.053	1366.085	1359.095	1357.098	1357.098
55	1222.287	1197.322	1195.324	1190.331	1190.331
60	1032.553	1013.579	1011.582	1007.588	1004.592
65	857.798	840.821	838.824	646.094	448.371
70	655.082	640.103	512.282	347.513	354.503
75	422.408	422.408	234.671	202.716	44.937
80	223.686	144.797	40.943	33.952	33.952
85	63.910	33.952	27.961	20.971	20.971
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	849.63	N.A.	13.60
0-30	1796.7	N.A.	28.70
0-40	2933.47	N.A.	46.80
0-60	5181.26	N.A.	82.70
0-80	6222.9	N.A.	99.30
0-90	6263.67	N.A.	100.00
10-90	6042.8	N.A.	96.50
20-40	2083.84	N.A.	33.30
20-50	3263.88	N.A.	52.10
40-70	2990.52	N.A.	47.70
60-80	1041.64	N.A.	16.60
70-80	298.91	N.A.	4.80
80-90	40.77	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	6263.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	220.87
10-20	628.76
20-30	947.07
30-40	1136.78
40-50	1180.04
50-60	1067.75
60-70	742.72
70-80	298.91
80-90	40.77
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	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

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UGR TABLE - CORRECTED

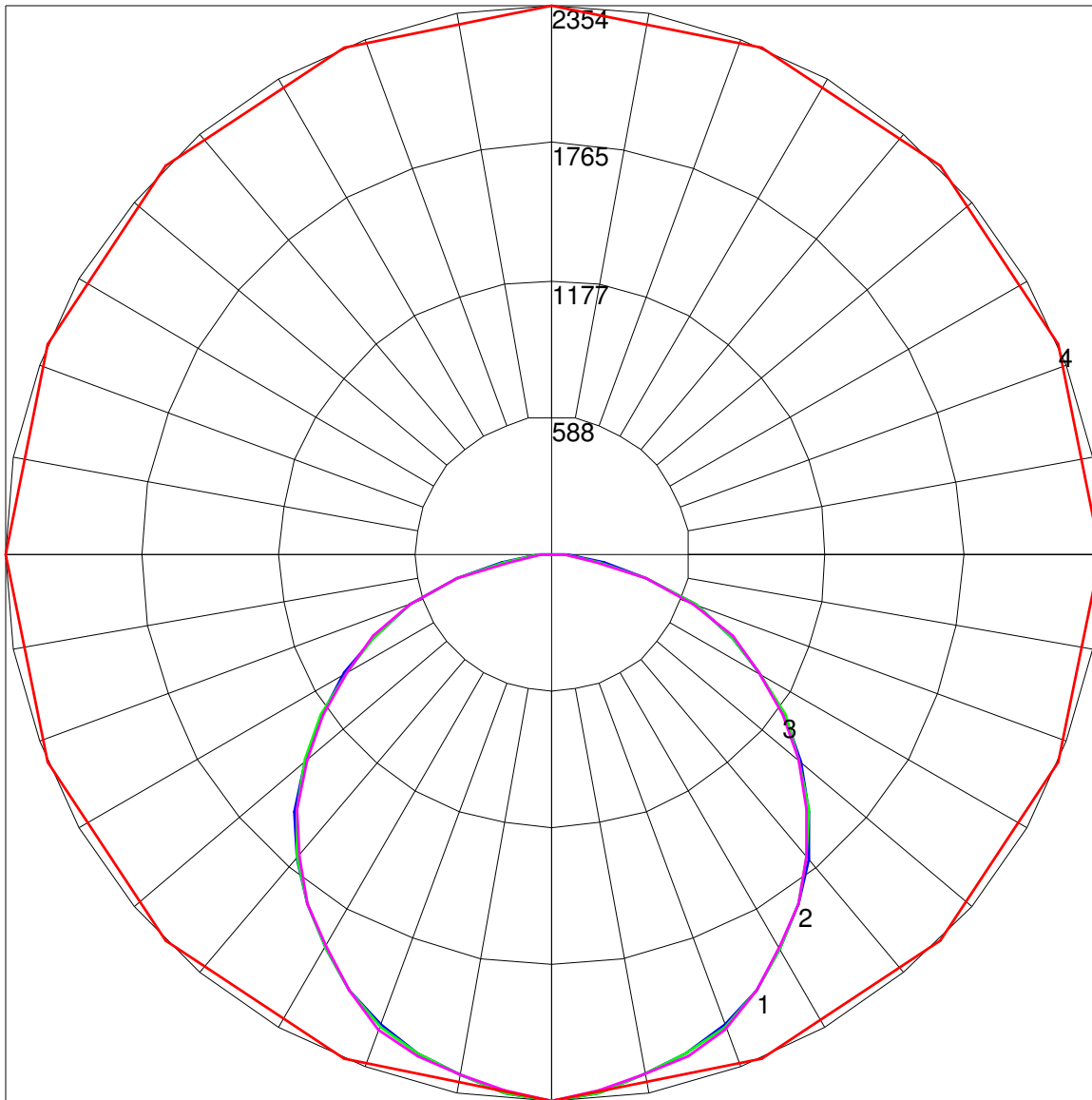
Reflectances

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	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	20.8	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 = 2353.7 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.)