



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L65-927-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-L65-927-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	5131
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
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	2783	2716	2708
55	2682	2623	2612
65	2554	2498	1335
75	2054	1141	218
85	923	404	303

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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	1928.031	1928.031	1928.031	1928.031	1928.031
5	1905.127	1898.583	1892.857	1900.219	1908.399
10	1866.681	1860.137	1889.585	1894.493	1875.679
15	1823.327	1842.141	1821.691	1806.967	1806.967
20	1768.521	1809.421	1751.343	1742.345	1742.345
25	1697.355	1706.353	1677.723	1672.815	1672.815
30	1606.556	1592.650	1582.016	1576.290	1574.654
35	1510.032	1496.126	1483.856	1482.220	1478.948
40	1403.692	1380.788	1374.244	1371.790	1370.154
45	1280.991	1254.815	1249.907	1248.271	1246.635
50	1137.841	1119.027	1113.301	1111.665	1111.665
55	1001.235	980.785	979.149	975.059	975.059
60	845.814	830.272	828.636	825.364	822.910
65	702.664	688.758	687.122	529.247	367.283
70	536.609	524.339	419.635	284.665	290.391
75	346.015	346.015	192.231	166.054	36.810
80	183.232	118.610	33.538	27.812	27.812
85	52.352	27.812	22.904	17.178	17.178
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	695.97	N.A.	13.60
0-30	1471.76	N.A.	28.70
0-40	2402.95	N.A.	46.80
0-60	4244.23	N.A.	82.70
0-80	5097.48	N.A.	99.30
0-90	5130.88	N.A.	100.00
10-90	4949.95	N.A.	96.50
20-40	1706.98	N.A.	33.30
20-50	2673.61	N.A.	52.10
40-70	2449.68	N.A.	47.70
60-80	853.25	N.A.	16.60
70-80	244.85	N.A.	4.80
80-90	33.39	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	5130.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	180.93
10-20	515.05
20-30	775.79
30-40	931.19
40-50	966.63
50-60	874.65
60-70	608.40
70-80	244.85
80-90	33.39
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

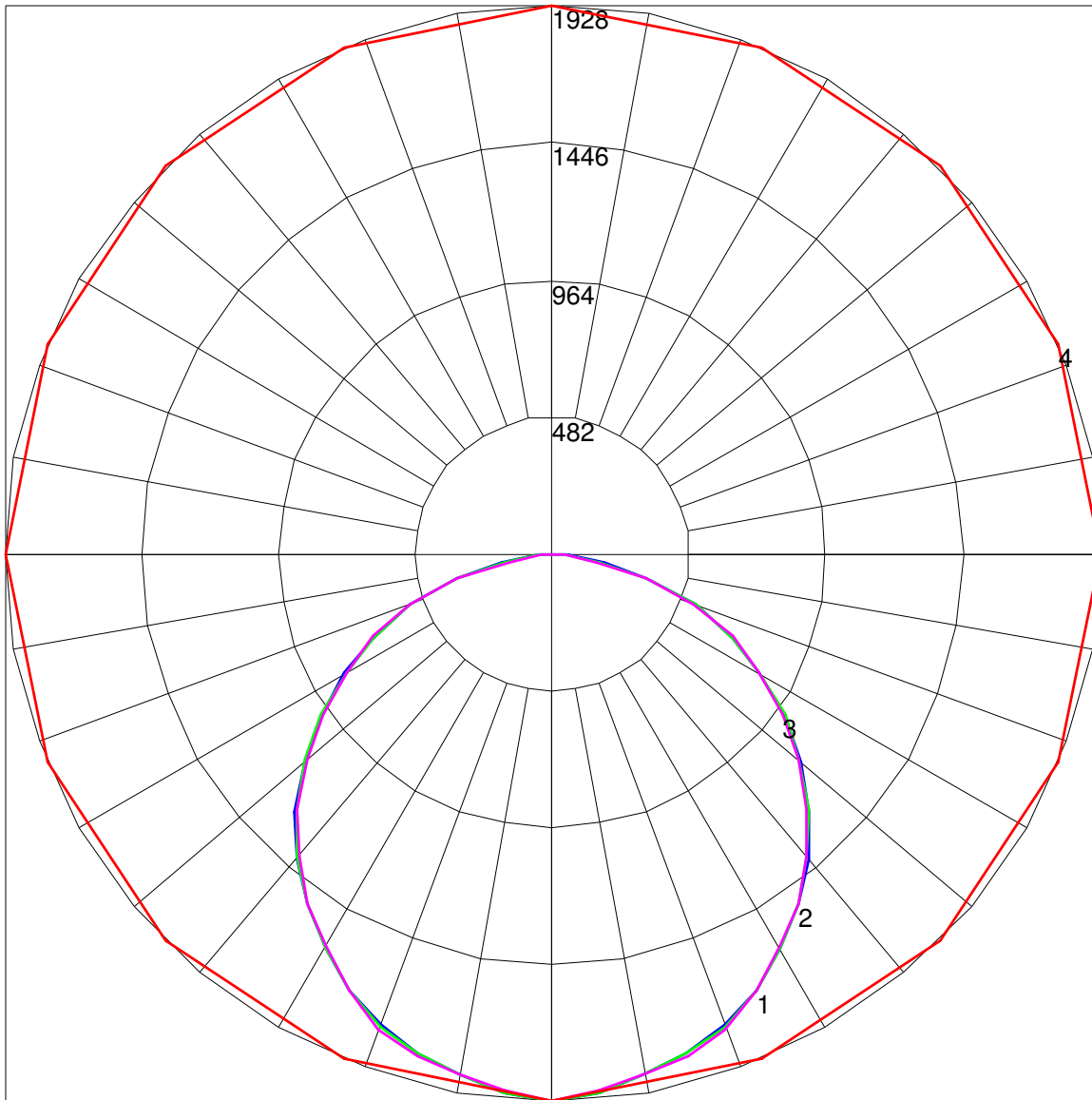
Reflectances

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	15.8	17.4	16.2	17.7	18.0	15.7	17.3	16.1	17.6	18.0
	3H	17.7	19.1	18.1	19.5	19.8	16.4	17.9	16.8	18.2	18.6
	4H	18.3	19.7	18.7	20.0	20.4	16.5	17.8	16.9	18.2	18.5
	6H	18.7	19.9	19.1	20.3	20.7	16.4	17.7	16.8	18.0	18.4
	8H	18.7	19.9	19.2	20.3	20.7	16.4	17.6	16.8	18.0	18.4
	12H	18.8	19.9	19.2	20.3	20.7	16.4	17.5	16.8	17.9	18.3
4H	2H	16.5	17.8	16.9	18.2	18.5	16.4	17.8	16.8	18.1	18.5
	3H	18.5	19.6	18.9	20.0	20.4	17.2	18.4	17.6	18.8	19.2
	4H	19.2	20.2	19.6	20.6	21.1	17.4	18.4	17.8	18.8	19.2
	6H	19.6	20.5	20.0	20.9	21.4	17.3	18.2	17.8	18.7	19.1
	8H	19.7	20.5	20.2	21.0	21.4	17.3	18.1	17.8	18.6	19.1
	12H	19.7	20.5	20.2	20.9	21.4	17.3	18.0	17.8	18.5	19.0
8H	4H	19.2	20.1	19.7	20.5	21.0	17.5	18.4	18.0	18.8	19.3
	6H	19.7	20.3	20.1	20.8	21.3	17.5	18.2	18.0	18.7	19.2
	8H	19.8	20.4	20.3	20.9	21.4	17.5	18.1	18.0	18.6	19.1
	12H	19.8	20.4	20.3	20.9	21.4	17.5	18.0	18.0	18.5	19.1
12H	4H	19.2	19.9	19.7	20.4	20.9	17.5	18.3	18.0	18.7	19.2
	6H	19.6	20.2	20.2	20.7	21.2	17.5	18.1	18.0	18.6	19.1
	8H	19.8	20.3	20.3	20.8	21.3	17.5	18.0	18.0	18.5	19.1

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 1928.031 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.)