



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L65-930-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-L65-930-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	5264
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	2855	2786	2779
55	2751	2691	2679
65	2621	2563	1370
75	2107	1171	224
85	947	414	311

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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	1978.110	1978.110	1978.110	1978.110	1978.110
5	1954.611	1947.897	1942.022	1949.575	1957.968
10	1915.166	1908.452	1938.665	1943.701	1924.398
15	1870.686	1889.989	1869.008	1853.901	1853.901
20	1814.456	1856.419	1796.832	1787.600	1787.600
25	1741.442	1750.673	1721.300	1716.264	1716.264
30	1648.285	1634.018	1623.108	1617.233	1615.554
35	1549.254	1534.986	1522.398	1520.719	1517.362
40	1440.151	1416.652	1409.938	1407.421	1405.742
45	1314.264	1287.408	1282.372	1280.694	1279.015
50	1167.395	1148.093	1142.218	1140.539	1140.539
55	1027.241	1006.260	1004.581	1000.385	1000.385
60	867.783	851.838	850.159	846.802	844.285
65	720.915	706.648	704.969	542.994	376.823
70	550.547	537.959	430.535	292.059	297.933
75	355.002	355.002	197.224	170.368	37.766
80	187.992	121.691	34.409	28.534	28.534
85	53.712	28.534	23.499	17.624	17.624
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	714.05	N.A.	13.60
0-30	1509.99	N.A.	28.70
0-40	2465.37	N.A.	46.80
0-60	4354.47	N.A.	82.70
0-80	5229.88	N.A.	99.30
0-90	5264.15	N.A.	100.00
10-90	5078.52	N.A.	96.50
20-40	1751.31	N.A.	33.30
20-50	2743.05	N.A.	52.10
40-70	2513.31	N.A.	47.70
60-80	875.42	N.A.	16.60
70-80	251.21	N.A.	4.80
80-90	34.26	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	5264.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	185.62
10-20	528.43
20-30	795.94
30-40	955.38
40-50	991.74
50-60	897.37
60-70	624.20
70-80	251.21
80-90	34.26
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	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

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UGR TABLE - CORRECTED

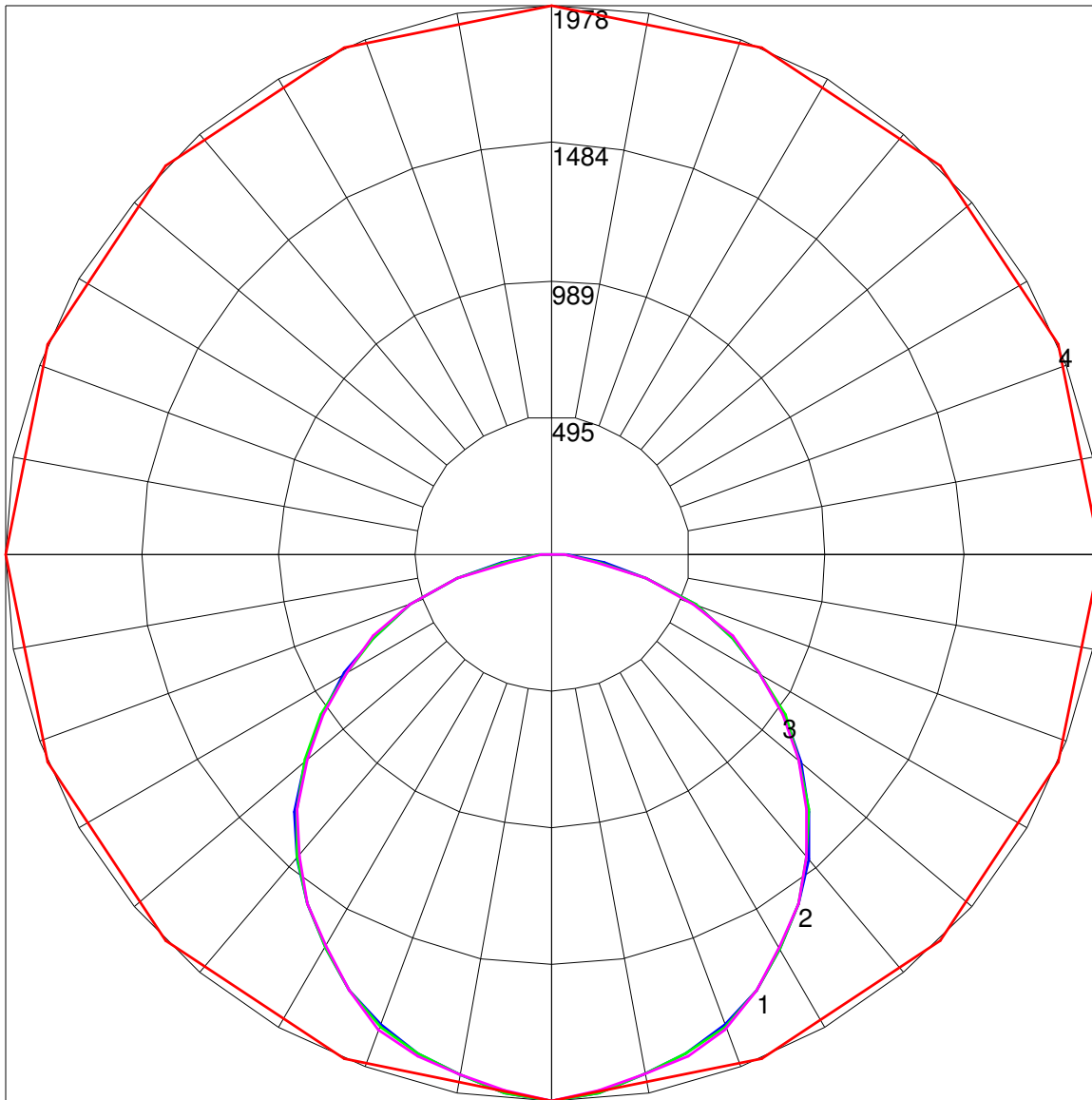
Reflectances

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	15.9	17.5	16.3	17.8	18.1	15.8	17.4	16.2	17.7	18.1
	3H	17.8	19.2	18.2	19.6	19.9	16.5	18.0	16.9	18.3	18.7
	4H	18.4	19.8	18.8	20.1	20.5	16.6	17.9	17.0	18.3	18.6
	6H	18.8	20.0	19.2	20.4	20.8	16.5	17.8	16.9	18.1	18.5
	8H	18.8	20.0	19.3	20.4	20.8	16.5	17.7	16.9	18.1	18.5
	12H	18.9	20.0	19.3	20.4	20.8	16.5	17.6	16.9	18.0	18.4
4H	2H	16.6	17.9	17.0	18.3	18.6	16.5	17.9	16.9	18.2	18.6
	3H	18.6	19.7	19.0	20.1	20.5	17.3	18.5	17.7	18.9	19.3
	4H	19.3	20.3	19.7	20.7	21.2	17.5	18.5	17.9	18.9	19.3
	6H	19.7	20.6	20.1	21.0	21.5	17.4	18.3	17.9	18.8	19.2
	8H	19.8	20.6	20.3	21.1	21.5	17.4	18.2	17.9	18.7	19.2
	12H	19.8	20.6	20.3	21.0	21.5	17.4	18.1	17.9	18.6	19.1
8H	4H	19.3	20.2	19.8	20.6	21.1	17.6	18.5	18.1	18.9	19.4
	6H	19.8	20.4	20.2	20.9	21.4	17.6	18.3	18.1	18.8	19.3
	8H	19.9	20.5	20.4	21.0	21.5	17.6	18.2	18.1	18.7	19.2
	12H	19.9	20.5	20.4	21.0	21.5	17.6	18.1	18.1	18.6	19.2
12H	4H	19.3	20.0	19.8	20.5	21.0	17.6	18.4	18.1	18.8	19.3
	6H	19.7	20.3	20.3	20.8	21.3	17.6	18.2	18.1	18.7	19.2
	8H	19.9	20.4	20.4	20.9	21.4	17.6	18.1	18.1	18.6	19.2

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1978.11 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.)