



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 80-8-L154-940-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-L154-940-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	12792
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	100.2
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	6939	6770	6753
55	6686	6538	6511
65	6368	6227	3329
75	5120	2845	545
85	2301	1007	755

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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	4806.871	4806.871	4806.871	4806.871	4806.871
5	4749.767	4733.452	4719.176	4737.531	4757.925
10	4653.915	4637.600	4711.019	4723.255	4676.349
15	4545.827	4592.733	4541.748	4505.039	4505.039
20	4409.187	4511.157	4366.360	4343.926	4343.926
25	4231.759	4254.193	4182.814	4170.577	4170.577
30	4005.386	3970.716	3944.203	3929.928	3925.849
35	3764.736	3730.066	3699.475	3695.396	3687.239
40	3499.614	3442.511	3426.195	3420.077	3415.998
45	3193.704	3128.443	3116.206	3112.127	3108.049
50	2836.808	2789.902	2775.626	2771.547	2771.547
55	2496.228	2445.243	2441.164	2430.967	2430.967
60	2108.742	2069.993	2065.914	2057.757	2051.638
65	1751.846	1717.176	1713.098	1319.493	915.692
70	1337.848	1307.257	1046.213	709.712	723.988
75	862.667	862.667	479.259	413.999	91.773
80	456.826	295.713	83.615	69.340	69.340
85	130.522	69.340	57.103	42.827	42.827
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1735.17	N.A.	13.60
0-30	3669.32	N.A.	28.70
0-40	5990.92	N.A.	46.80
0-60	10581.49	N.A.	82.70
0-80	12708.79	N.A.	99.30
0-90	12792.04	N.A.	100.00
10-90	12340.97	N.A.	96.50
20-40	4255.75	N.A.	33.30
20-50	6665.7	N.A.	52.10
40-70	6107.41	N.A.	47.70
60-80	2127.29	N.A.	16.60
70-80	610.45	N.A.	4.80
80-90	83.26	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	12792.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	451.07
10-20	1284.09
20-30	1934.16
30-40	2321.6
40-50	2409.95
50-60	2180.63
60-70	1516.84
70-80	610.45
80-90	83.26
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	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

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UGR TABLE - CORRECTED

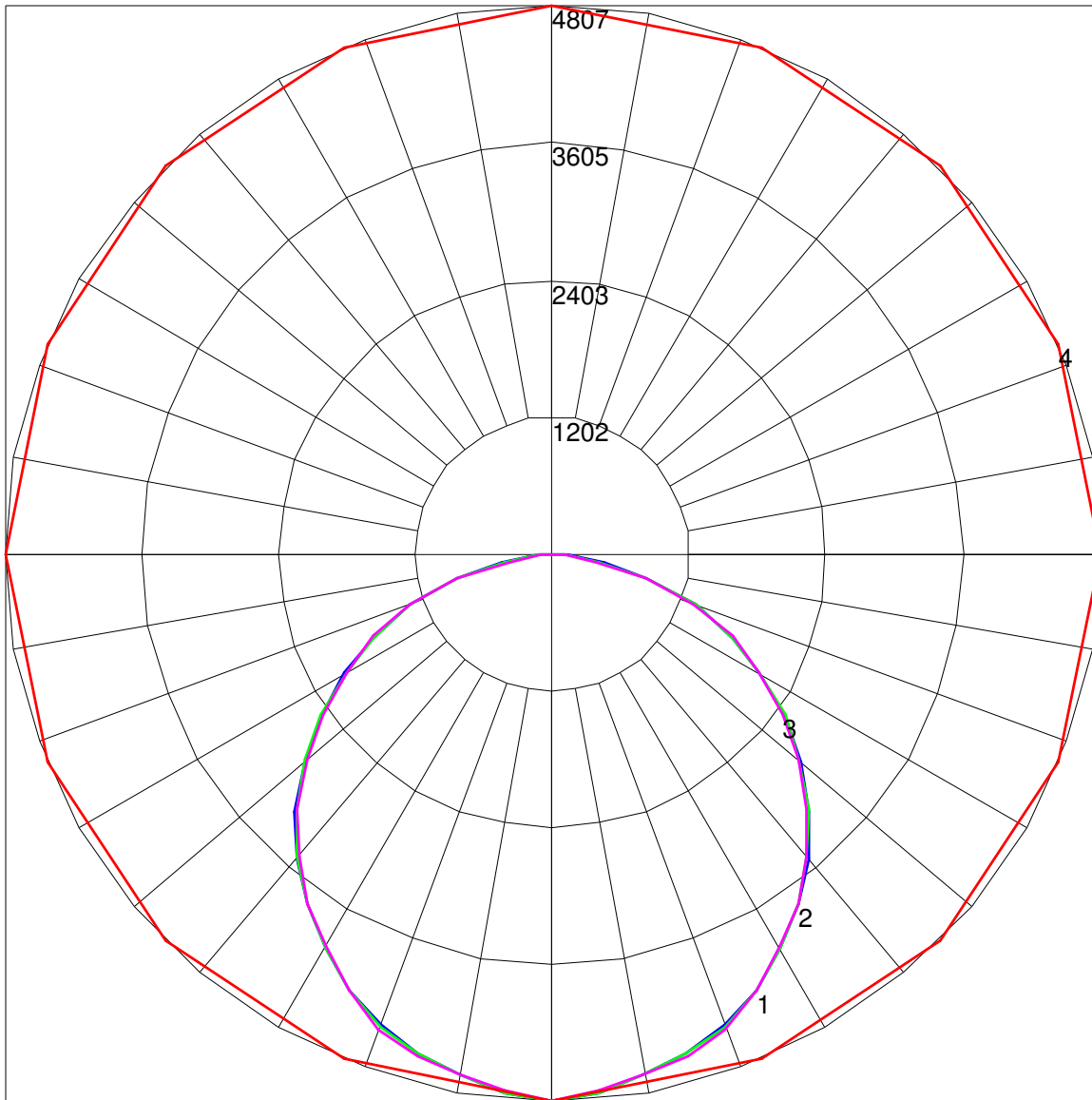
Reflectances

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	19.0	20.6	19.4	20.9	21.2	18.9	20.5	19.3	20.8	21.2
	3H	20.9	22.3	21.3	22.7	23.0	19.6	21.1	20.0	21.4	21.8
	4H	21.5	22.9	21.9	23.2	23.6	19.7	21.0	20.1	21.4	21.7
	6H	21.9	23.1	22.3	23.5	23.9	19.6	20.9	20.0	21.2	21.6
	8H	21.9	23.1	22.4	23.5	23.9	19.6	20.8	20.0	21.2	21.6
	12H	22.0	23.1	22.4	23.5	23.9	19.6	20.7	20.0	21.1	21.5
4H	2H	19.7	21.0	20.1	21.4	21.7	19.6	21.0	20.0	21.3	21.7
	3H	21.7	22.8	22.1	23.2	23.6	20.4	21.6	20.8	22.0	22.4
	4H	22.4	23.4	22.8	23.8	24.3	20.6	21.6	21.0	22.0	22.4
	6H	22.8	23.7	23.2	24.1	24.6	20.5	21.4	21.0	21.9	22.3
	8H	22.9	23.7	23.4	24.2	24.6	20.5	21.3	21.0	21.8	22.3
	12H	22.9	23.7	23.4	24.1	24.6	20.5	21.2	21.0	21.7	22.2
8H	4H	22.4	23.3	22.9	23.7	24.2	20.7	21.6	21.2	22.0	22.5
	6H	22.9	23.5	23.3	24.0	24.5	20.7	21.4	21.2	21.9	22.4
	8H	23.0	23.6	23.5	24.1	24.6	20.7	21.3	21.2	21.8	22.3
	12H	23.0	23.6	23.5	24.1	24.6	20.7	21.2	21.2	21.7	22.3
12H	4H	22.4	23.1	22.9	23.6	24.1	20.7	21.5	21.2	21.9	22.4
	6H	22.8	23.4	23.4	23.9	24.4	20.7	21.3	21.2	21.8	22.3
	8H	23.0	23.5	23.5	24.0	24.5	20.7	21.2	21.2	21.7	22.3

Maximum UGR = 24.6

POLAR GRAPH



Maximum Candela = 4806.871 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.)