



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-4-L77-840-(L63)-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] 07-19-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 4-32 LED 22" ARRAYS 4' INDUSTRIAL LUMINAIRE
 [MORE] WHITE REFLECTOR w/OPEN BOTTOM
 [LUMCAT] 80-4-L77-840-(L63)-DIM-UNV
 [LAMPCAT] 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6360
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	41.7
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)	4.00 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	6900	6733	6715
55	6649	6502	6475
65	6333	6193	3310
75	5092	2829	542
85	2288	1001	751

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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	2390.071	2390.071	2390.071	2390.071	2390.071
5	2361.678	2353.566	2346.468	2355.594	2365.734
10	2314.019	2305.907	2342.412	2348.496	2325.173
15	2260.275	2283.598	2258.247	2239.995	2239.995
20	2192.335	2243.037	2171.040	2159.886	2159.886
25	2104.114	2115.269	2079.778	2073.694	2073.694
30	1991.557	1974.318	1961.136	1954.038	1952.010
35	1871.901	1854.663	1839.452	1837.424	1833.368
40	1740.077	1711.684	1703.572	1700.530	1698.502
45	1587.973	1555.524	1549.439	1547.411	1545.383
50	1410.517	1387.194	1380.096	1378.068	1378.068
55	1241.174	1215.823	1213.795	1208.725	1208.725
60	1048.508	1029.242	1027.213	1023.157	1020.115
65	871.053	853.814	851.786	656.078	455.300
70	665.204	649.994	520.198	352.883	359.981
75	428.935	428.935	238.297	205.848	45.631
80	227.143	147.035	41.575	34.477	34.477
85	64.898	34.477	28.393	21.295	21.295
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	862.76	N.A.	13.60
0-30	1824.46	N.A.	28.70
0-40	2978.8	N.A.	46.80
0-60	5261.33	N.A.	82.70
0-80	6319.06	N.A.	99.30
0-90	6360.46	N.A.	100.00
10-90	6136.17	N.A.	96.50
20-40	2116.04	N.A.	33.30
20-50	3314.32	N.A.	52.10
40-70	3036.73	N.A.	47.70
60-80	1057.73	N.A.	16.60
70-80	303.53	N.A.	4.80
80-90	41.40	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	6360.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	224.28
10-20	638.48
20-30	961.70
30-40	1154.34
40-50	1198.27
50-60	1084.25
60-70	754.20
70-80	303.53
80-90	41.40
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	42	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

X=2H	Y=2H	18.9	20.5	19.3	20.8	21.1	18.8	20.4	19.2	20.8	21.1
	3H	20.8	22.2	21.2	22.6	22.9	19.5	21.0	19.9	21.3	21.7
	4H	21.4	22.8	21.8	23.1	23.5	19.6	20.9	20.0	21.3	21.7
	6H	21.8	23.0	22.2	23.4	23.8	19.5	20.8	19.9	21.2	21.5
	8H	21.8	23.0	22.3	23.4	23.8	19.5	20.7	19.9	21.1	21.5
	12H	21.9	23.0	22.3	23.4	23.8	19.5	20.6	19.9	21.0	21.4

UGR Viewed Endwise

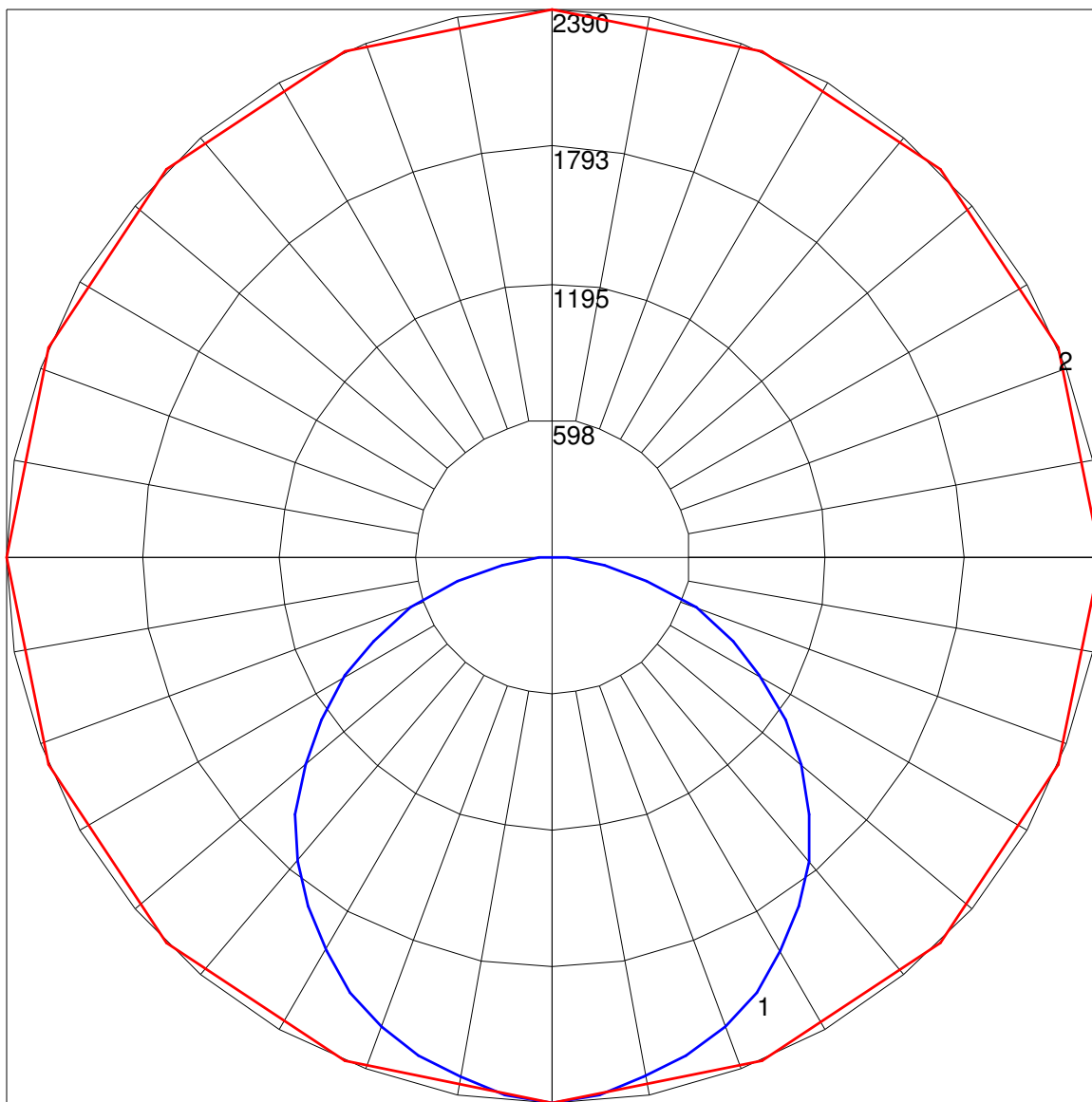
4H	2H	19.6	20.9	20.0	21.3	21.7	19.5	20.9	19.9	21.2	21.6
	3H	21.6	22.7	22.0	23.1	23.5	20.3	21.5	20.8	21.9	22.3
	4H	22.3	23.3	22.7	23.7	24.2	20.5	21.5	20.9	21.9	22.3
	6H	22.7	23.6	23.2	24.0	24.5	20.4	21.3	20.9	21.8	22.2
	8H	22.8	23.6	23.3	24.1	24.5	20.4	21.3	20.9	21.7	22.2
	12H	22.9	23.6	23.3	24.1	24.5	20.4	21.1	20.9	21.6	22.1

8H	4H	22.4	23.2	22.8	23.6	24.1	20.6	21.5	21.1	21.9	22.4
	6H	22.8	23.4	23.3	23.9	24.4	20.6	21.3	21.1	21.8	22.3
	8H	22.9	23.5	23.4	24.0	24.5	20.6	21.2	21.1	21.7	22.2
	12H	22.9	23.5	23.4	24.0	24.5	20.6	21.1	21.1	21.6	22.2

12H	4H	22.3	23.1	22.8	23.5	24.0	20.6	21.4	21.1	21.8	22.3
	6H	22.8	23.4	23.3	23.8	24.4	20.6	21.2	21.2	21.7	22.2
	8H	22.9	23.4	23.4	23.9	24.5	20.6	21.1	21.1	21.6	22.2

Maximum UGR = 24.5

POLAR GRAPH



Maximum Candela = 2390.071 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)