



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AHTG-24-L80-935-A-(L55)-DIM-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 18091.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 28-JUNE-2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 448 LEDS (8 BOARDS)2x4'RECESSED 3 APERATURE LUMINAIRE

[MORE] WHITE REFLECTORS w/3 LINEAR RIBBED FROSTED ACRYLIC LENSES

[MORE] 4 ULT EVERLINE #D23CC90UNVT-F @ 1.853mA

[LUMCAT] AHTG-24-L80-935-A-(L55)-UNV

[LAMPCAT] HLM 90 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4877
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	45
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2346	2402	2390
55	1989	2141	2107
65	1661	1828	1455
75	1265	1151	823
85	965	722	638

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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	2060.288	2060.288	2060.288	2060.288	2060.288
5	2051.556	2051.556	2050.050	2049.147	2049.147
10	2014.216	2011.807	2008.194	2003.677	2002.473
15	1931.407	1926.891	1918.158	1910.028	1907.920
20	1888.648	1884.432	1871.785	1857.331	1852.814
25	1745.012	1742.302	1729.052	1714.900	1704.059
30	1611.012	1606.495	1592.643	1574.275	1562.531
35	1479.722	1478.216	1468.881	1450.513	1444.490
40	1322.234	1325.245	1326.450	1313.502	1308.985
45	1158.122	1173.479	1185.825	1185.825	1180.104
50	968.113	985.879	1012.077	1023.821	1016.594
55	796.773	819.358	857.600	864.827	843.749
60	630.252	655.245	698.607	652.234	623.627
65	490.229	519.740	539.313	470.656	429.402
70	356.832	389.955	370.081	293.897	263.182
75	228.553	249.933	208.076	162.005	148.755
80	135.506	138.517	108.405	89.434	86.423
85	58.719	52.094	43.964	39.447	38.845
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	739.58	N.A.	15.20
0-30	1536.88	N.A.	31.50
0-40	2451.43	N.A.	50.30
0-60	4102.41	N.A.	84.10
0-80	4821.62	N.A.	98.90
0-90	4877.14	N.A.	100.00
10-90	4682.82	N.A.	96.00
20-40	1711.85	N.A.	35.10
20-50	2615.44	N.A.	53.60
40-70	2144.2	N.A.	44.00
60-80	719.21	N.A.	14.70
70-80	225.99	N.A.	4.60
80-90	55.52	N.A.	1.10
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	4877.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	194.32
10-20	545.26
20-30	797.31
30-40	914.54
40-50	903.59
50-60	747.39
60-70	493.22
70-80	225.99
80-90	55.52
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	100	96	99	96	93	95	93	90	91	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

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UGR TABLE - CORRECTED

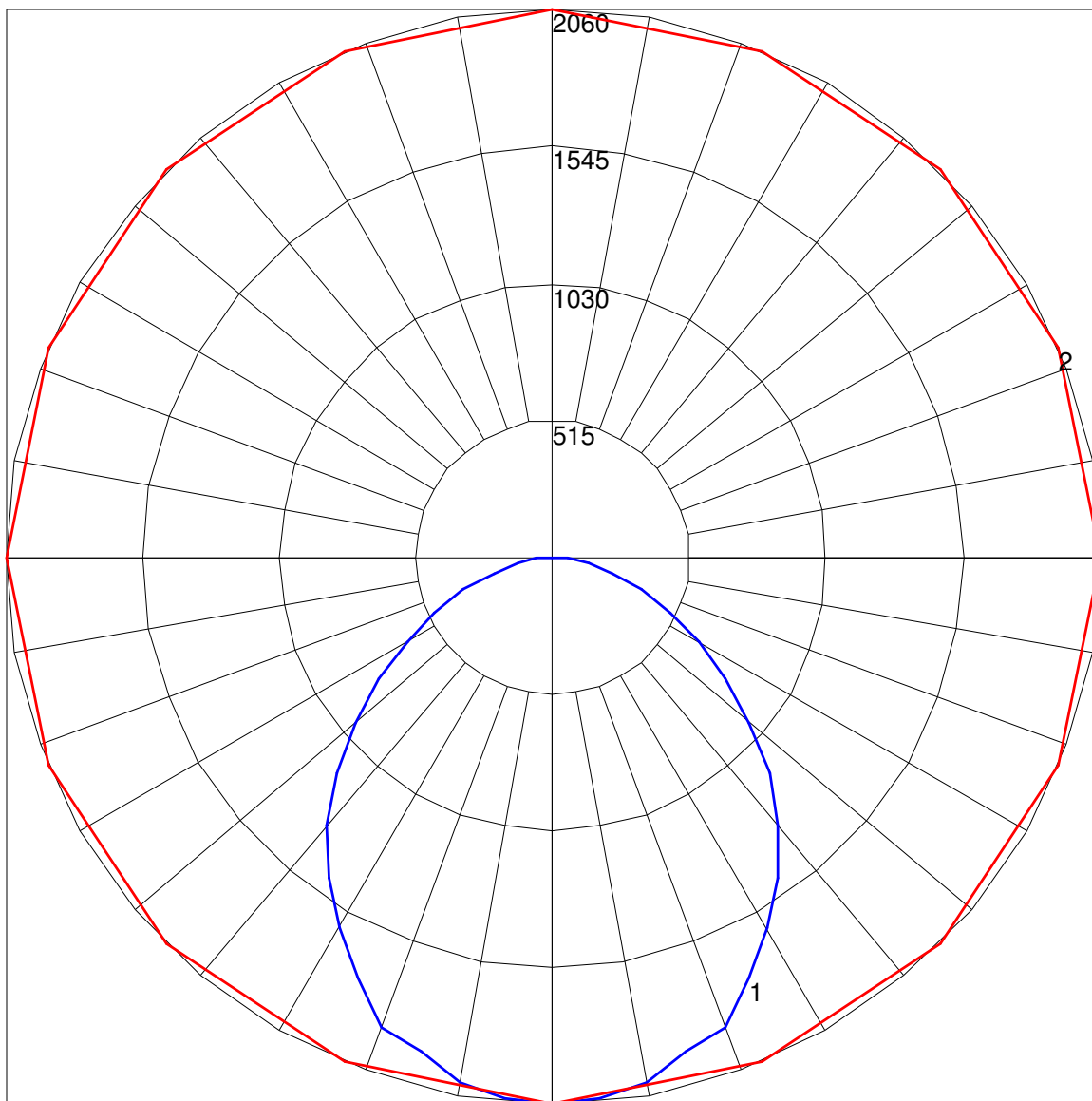
Reflectances

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	14.2	15.8	14.6	16.1	16.4	14.4	16.0	14.8	16.3	16.6
	3H	15.8	17.2	16.2	17.5	17.9	15.4	16.8	15.8	17.1	17.5
	4H	16.3	17.6	16.7	17.9	18.3	15.6	16.9	16.0	17.3	17.7
	6H	16.6	17.8	17.0	18.2	18.6	15.8	17.0	16.2	17.4	17.7
	8H	16.7	17.9	17.1	18.3	18.7	15.8	17.0	16.2	17.4	17.8
	12H	16.8	17.9	17.2	18.3	18.7	15.8	16.9	16.3	17.3	17.8
4H	2H	14.9	16.2	15.3	16.5	16.9	15.0	16.3	15.4	16.7	17.1
	3H	16.6	17.7	17.0	18.1	18.5	16.2	17.3	16.6	17.7	18.1
	4H	17.2	18.2	17.7	18.6	19.1	16.5	17.4	16.9	17.9	18.3
	6H	17.7	18.5	18.1	19.0	19.4	16.7	17.5	17.1	18.0	18.4
	8H	17.8	18.6	18.3	19.0	19.5	16.7	17.5	17.2	18.0	18.4
	12H	17.9	18.6	18.4	19.1	19.6	16.8	17.5	17.2	18.0	18.4
8H	4H	17.4	18.2	17.8	18.6	19.1	16.7	17.5	17.1	17.9	18.4
	6H	17.9	18.6	18.4	19.1	19.5	17.0	17.6	17.4	18.1	18.6
	8H	18.1	18.7	18.6	19.2	19.7	17.0	17.6	17.6	18.1	18.6
	12H	18.3	18.8	18.8	19.3	19.8	17.2	17.7	17.7	18.2	18.7
12H	4H	17.3	18.1	17.8	18.5	19.0	16.7	17.4	17.2	17.9	18.4
	6H	17.9	18.5	18.4	19.0	19.5	17.0	17.6	17.5	18.0	18.6
	8H	18.2	18.7	18.7	19.2	19.7	17.1	17.6	17.6	18.1	18.7

Maximum UGR = 19.8

POLAR GRAPH



Maximum Candela = 2060.288 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.)