



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-L44-835-A-DIM-UNV AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Intertek
 [ISSUEDATE] 17-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2X2' LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD2AEG-L44-835-A-DIM-UNV AMBIENT ONLY
 [LAMPCAT] HLM 80 CRI, 3500K CCT
 [_SEARCH_SOURCE] LED
 [_SEARCH_APPLICATION] INDOOR, DIRECT, OFFICE, EDUCATION
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4523
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	37
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 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	4432	4429	4593
55	3679	3964	4110
65	2868	3299	2720
75	2132	2124	1578
85	1369	1045	844

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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>
0.0	1971.405	1971.405	1971.405	1971.405	1971.405
2.5	1970.186	1966.530	1964.842	1969.155	1971.499
5.0	1964.748	1960.060	1956.497	1957.623	1959.873
7.5	1952.841	1945.996	1941.121	1939.808	1937.277
10.0	1934.182	1926.307	1917.118	1913.649	1910.742
12.5	1908.867	1900.616	1888.521	1880.833	1874.738
15.0	1875.676	1866.863	1851.955	1841.172	1833.578
17.5	1836.015	1824.952	1808.450	1796.261	1787.541
20.0	1789.041	1777.228	1758.476	1745.255	1735.223
22.5	1735.598	1722.378	1703.063	1690.124	1680.654
25.0	1677.560	1662.090	1640.994	1629.743	1621.304
27.5	1615.585	1598.145	1576.955	1568.798	1562.610
30.0	1550.984	1532.794	1512.448	1506.354	1502.416
32.5	1482.258	1463.880	1445.316	1443.347	1440.722
35.0	1408.093	1391.029	1375.277	1379.121	1378.746
37.5	1328.959	1313.958	1302.144	1310.114	1312.833
40.0	1247.013	1233.793	1226.292	1239.699	1245.700
42.5	1160.378	1150.533	1148.658	1168.442	1179.412
45.0	1071.025	1064.555	1070.181	1096.809	1109.935
47.5	981.952	981.296	992.078	1025.832	1040.740
50.0	892.974	898.881	917.820	956.356	966.013
52.5	806.058	817.965	846.469	883.691	888.848
55.0	721.205	739.300	776.992	804.464	805.495
57.5	639.352	662.136	707.609	718.111	695.139
60.0	559.937	587.221	634.758	611.224	590.503
62.5	484.085	515.494	560.124	517.370	488.210
65.0	414.140	449.112	476.396	425.297	392.762
67.5	349.351	386.199	393.325	337.537	309.878
70.0	290.751	327.974	319.160	263.185	240.214
72.5	236.839	271.342	249.403	200.460	183.489
75.0	188.552	214.993	187.896	150.860	139.609
77.5	144.485	161.362	135.671	111.762	105.012
80.0	105.480	114.294	93.760	80.165	76.415
82.5	70.977	72.383	59.350	52.318	49.224
85.0	40.786	37.692	31.128	27.378	25.128
87.5	14.345	11.908	10.876	11.064	10.970
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.094	0.000	0.094
152.5	0.000	0.000	0.094	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.188	0.094	0.000	0.375	0.094
160.0	0.094	0.000	0.281	0.188	0.094
162.5	0.375	0.094	0.094	0.094	0.281
165.0	0.094	0.094	0.281	0.188	0.375
167.5	0.375	0.094	0.188	0.188	0.094
170.0	0.094	0.094	0.281	0.188	0.188
172.5	0.000	0.094	0.375	0.469	0.000
175.0	0.281	0.000	0.188	0.281	0.375
177.5	0.281	0.188	0.281	0.281	0.094
180.0	0.281	0.281	0.281	0.281	0.281

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Zone	Lumens	%Lamp	%Fixt
0-20	707.50	N.A.	15.60
0-30	1465.03	N.A.	32.40
0-40	2329.75	N.A.	51.50
0-60	3849.94	N.A.	85.10
0-80	4481.67	N.A.	99.10
0-90	4523.1	N.A.	100.00
10-90	4337.34	N.A.	95.90
20-40	1622.25	N.A.	35.90
20-50	2456.05	N.A.	54.30
40-70	1956.97	N.A.	43.30
60-80	631.73	N.A.	14.00
70-80	194.96	N.A.	4.30
80-90	41.43	N.A.	0.90
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	0.10	N.A.	0.00
110-180	0.10	N.A.	0.00
0-180	4523.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	185.76
10-20	521.74
20-30	757.54
30-40	864.71
40-50	833.80
50-60	686.39
60-70	436.78
70-80	194.96
80-90	41.43
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	0.03
160-170	0.05
170-180	0.02

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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	45	40	50	44	39	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	37	33	43	37	32	42	37	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

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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

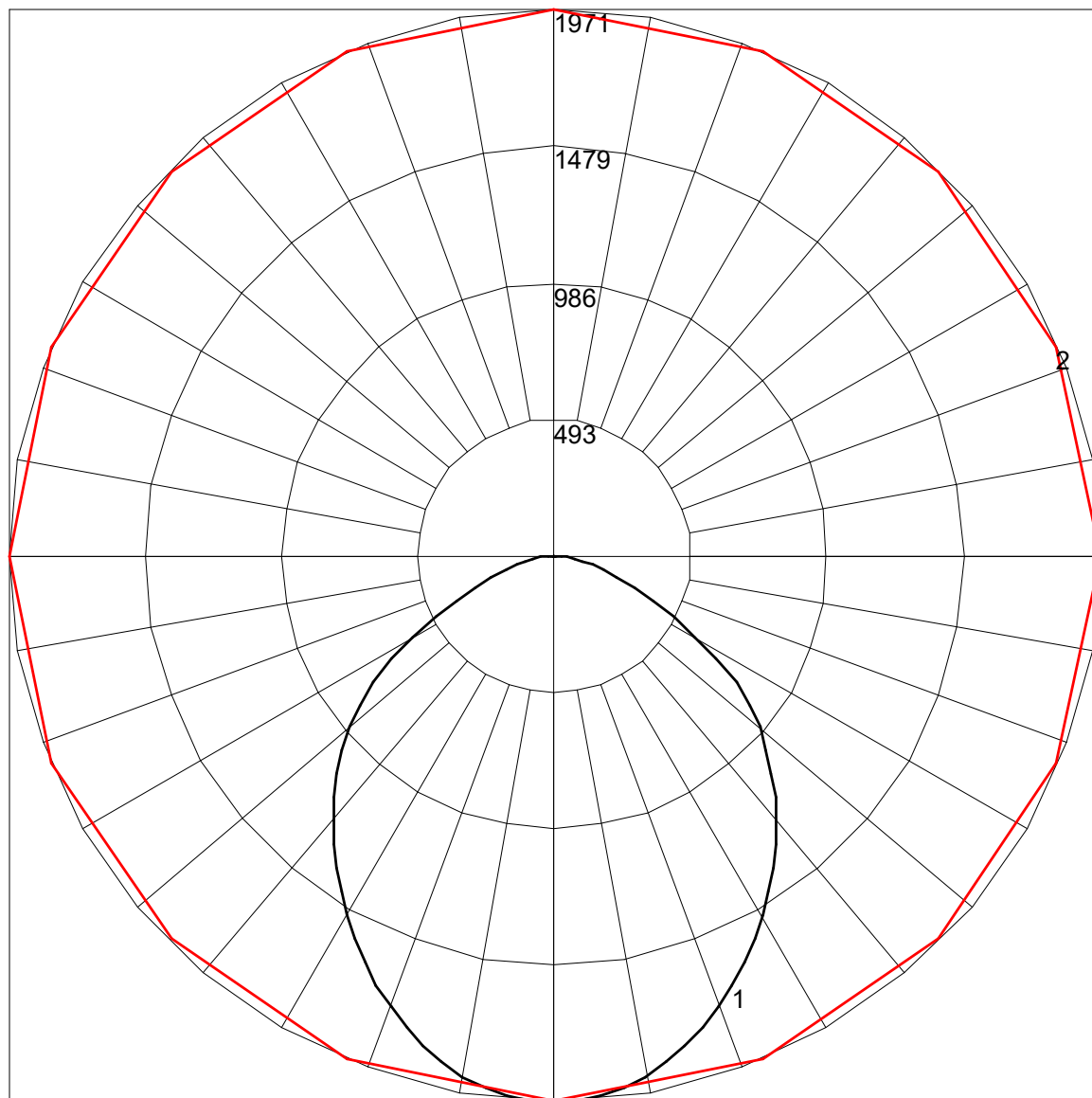
X=2H	Y=2H	16.2	17.8	16.6	18.1	18.4	16.8	18.3	17.1	18.6	18.9
	3H	17.6	19.0	17.9	19.3	19.6	17.6	19.0	18.0	19.3	19.7
	4H	18.0	19.3	18.4	19.7	20.0	17.8	19.1	18.2	19.5	19.9
	6H	18.3	19.5	18.7	19.9	20.3	18.0	19.2	18.4	19.5	19.9
	8H	18.4	19.5	18.8	19.9	20.3	18.0	19.1	18.4	19.5	19.9
	12H	18.4	19.5	18.8	19.9	20.3	18.0	19.1	18.4	19.5	19.9

UGR Viewed Endwise

4H	2H	16.8	18.1	17.2	18.5	18.8	17.3	18.6	17.7	18.9	19.3
	3H	18.4	19.4	18.8	19.8	20.2	18.3	19.4	18.7	19.8	20.2
	4H	18.9	19.9	19.4	20.3	20.8	18.6	19.6	19.0	20.0	20.4
	6H	19.3	20.2	19.8	20.6	21.1	18.8	19.6	19.2	20.1	20.5
	8H	19.4	20.2	19.9	20.7	21.1	18.8	19.6	19.3	20.1	20.5
	12H	19.5	20.2	20.0	20.7	21.1	18.8	19.6	19.3	20.0	20.5
8H	4H	19.1	19.9	19.5	20.3	20.8	18.8	19.6	19.2	20.0	20.5
	6H	19.5	20.2	20.0	20.7	21.2	19.0	19.7	19.5	20.2	20.6
	8H	19.7	20.3	20.2	20.8	21.3	19.1	19.7	19.6	20.2	20.7
	12H	19.8	20.3	20.3	20.8	21.4	19.1	19.7	19.7	20.2	20.7
12H	4H	19.1	19.8	19.6	20.3	20.7	18.8	19.5	19.3	20.0	20.4
	6H	19.6	20.1	20.1	20.6	21.2	19.1	19.6	19.6	20.1	20.6
	8H	19.7	20.3	20.2	20.7	21.3	19.1	19.7	19.7	20.2	20.7

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 1971.499 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)