



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-L44-8TW-A-DALI-UNV 4000K AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN from Intertek
 [ISSUEDATE] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
 [LUMINAIRE] 2X2' LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD2AEG-L44-8TW-A-DALI-UNV 4000k AMBIENT ONLY
 [_SEARCH_SOURCE TYPE] 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	4477
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	42.6
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	4387	4384	4547
55	3642	3924	4068
65	2838	3265	2692
75	2110	2103	1562
85	1355	1035	835

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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	1951.356	1951.356	1951.356	1951.356	1951.356
2.5	1950.149	1946.530	1944.859	1949.128	1951.448
5.0	1944.766	1940.126	1936.599	1937.713	1939.940
7.5	1932.980	1926.205	1921.379	1920.080	1917.574
10.0	1914.511	1906.716	1897.620	1894.187	1891.310
12.5	1889.453	1881.286	1869.314	1861.704	1855.672
15.0	1856.600	1847.876	1833.120	1822.447	1814.930
17.5	1817.343	1806.391	1790.057	1777.993	1769.361
20.0	1770.846	1759.153	1740.591	1727.506	1717.575
22.5	1717.947	1704.861	1685.743	1672.935	1663.562
25.0	1660.499	1645.186	1624.304	1613.168	1604.815
27.5	1599.154	1581.892	1560.917	1552.843	1546.718
30.0	1535.210	1517.205	1497.066	1491.034	1487.136
32.5	1467.183	1448.992	1430.617	1428.668	1426.069
35.0	1393.772	1376.882	1361.290	1365.095	1364.724
37.5	1315.443	1300.594	1288.901	1296.789	1299.481
40.0	1234.330	1221.245	1213.820	1227.091	1233.031
42.5	1148.577	1138.832	1136.976	1156.558	1167.417
45.0	1060.132	1053.728	1059.297	1085.654	1098.647
47.5	971.966	971.316	981.989	1015.399	1030.155
50.0	883.892	889.739	908.486	946.629	956.188
52.5	797.860	809.646	837.860	874.704	879.808
55.0	713.870	731.782	769.090	796.282	797.303
57.5	632.850	655.402	700.413	710.807	688.070
60.0	554.242	581.249	628.302	605.007	584.497
62.5	479.161	510.252	554.428	512.108	483.245
65.0	409.928	444.545	471.551	420.972	388.768
67.5	345.798	382.271	389.324	334.104	306.726
70.0	287.794	324.638	315.914	260.509	237.771
72.5	234.430	268.583	246.866	198.421	181.623
75.0	186.634	212.806	185.985	149.326	138.189
77.5	143.015	159.720	134.291	110.626	103.944
80.0	104.408	113.131	92.807	79.350	75.638
82.5	70.255	71.647	58.747	51.786	48.724
85.0	40.371	37.308	30.812	27.100	24.872
87.5	14.199	11.786	10.766	10.951	10.858
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	0.093	0.000	0.093
152.5	0.000	0.000	0.093	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.186	0.093	0.000	0.371	0.093
160.0	0.093	0.000	0.278	0.186	0.093
162.5	0.371	0.093	0.093	0.093	0.278
165.0	0.093	0.093	0.278	0.186	0.371
167.5	0.371	0.093	0.186	0.186	0.093
170.0	0.093	0.093	0.278	0.186	0.186
172.5	0.000	0.093	0.371	0.464	0.000
175.0	0.278	0.000	0.186	0.278	0.371
177.5	0.278	0.186	0.278	0.278	0.093
180.0	0.278	0.278	0.278	0.278	0.278

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Zone	Lumens	%Lamp	%Fixt
0-20	700.30	N.A.	15.60
0-30	1450.13	N.A.	32.40
0-40	2306.05	N.A.	51.50
0-60	3810.78	N.A.	85.10
0-80	4436.09	N.A.	99.10
0-90	4477.1	N.A.	100.00
10-90	4293.23	N.A.	95.90
20-40	1605.75	N.A.	35.90
20-50	2431.07	N.A.	54.30
40-70	1937.07	N.A.	43.30
60-80	625.31	N.A.	14.00
70-80	192.97	N.A.	4.30
80-90	41.00	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	4477.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	183.87
10-20	516.44
20-30	749.83
30-40	855.92
40-50	825.32
50-60	679.41
60-70	432.34
70-80	192.97
80-90	41.00
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	123	123	123	123	120	120	120	120	115	115	115	110	110	110	105	105	105	103
1	114	109	105	102	111	107	103	100	102	99	97	98	96	94	95	93	91	89
2	104	96	90	84	101	94	88	83	91	86	82	87	83	80	84	81	78	76
3	96	85	78	71	93	84	77	71	81	75	69	78	73	68	75	71	67	65
4	88	76	68	61	86	75	67	61	72	65	60	70	64	59	68	63	58	56
5	81	69	60	53	79	67	59	53	65	58	52	63	57	52	61	56	51	49
6	75	62	53	47	73	61	53	47	59	52	46	58	51	46	56	50	46	44
7	70	56	48	42	68	56	47	42	54	47	41	53	46	41	51	45	41	39
8	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
9	61	48	39	34	60	47	39	34	46	39	34	45	38	33	44	38	33	32
10	57	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29

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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	16.1	17.7	16.5	18.0	18.3	UGR Viewed Endwise	16.7	18.2	17.0	18.5	18.8
	3H	17.5	18.9	17.8	19.2	19.5		17.5	18.9	17.9	19.2	19.6
	4H	17.9	19.2	18.3	19.6	19.9		17.7	19.0	18.1	19.4	19.8
	6H	18.2	19.4	18.6	19.8	20.2		17.9	19.1	18.3	19.4	19.8
	8H	18.3	19.4	18.7	19.8	20.2		17.9	19.0	18.3	19.4	19.8
	12H	18.3	19.4	18.7	19.8	20.2		17.9	19.0	18.3	19.4	19.8

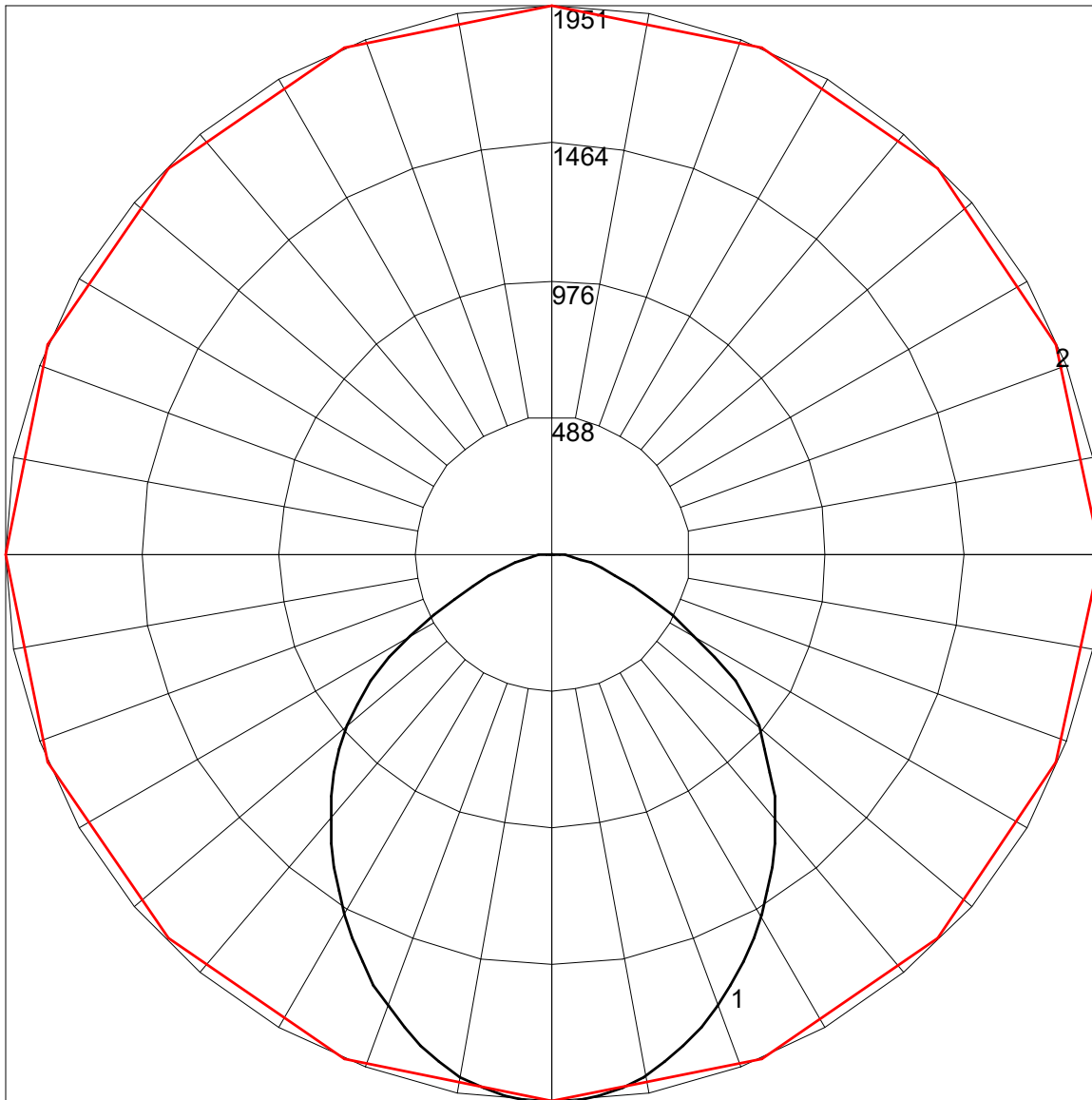
4H	2H	16.7	18.0	17.1	18.4	18.8		17.2	18.5	17.6	18.8	19.2
	3H	18.3	19.4	18.7	19.7	20.2		18.2	19.3	18.6	19.7	20.1
	4H	18.8	19.8	19.3	20.2	20.7		18.5	19.5	18.9	19.9	20.3
	6H	19.2	20.1	19.7	20.5	21.0		18.7	19.5	19.1	20.0	20.4
	8H	19.3	20.1	19.8	20.6	21.0		18.7	19.5	19.2	20.0	20.4
	12H	19.4	20.1	19.9	20.6	21.0		18.7	19.5	19.2	19.9	20.4

8H	4H	19.0	19.8	19.4	20.2	20.7		18.7	19.5	19.1	19.9	20.4
	6H	19.4	20.1	19.9	20.6	21.1		18.9	19.6	19.4	20.1	20.5
	8H	19.6	20.2	20.1	20.7	21.2		19.0	19.6	19.5	20.1	20.6
	12H	19.7	20.2	20.2	20.7	21.3		19.0	19.6	19.6	20.1	20.6

12H	4H	19.0	19.7	19.5	20.2	20.6		18.7	19.4	19.2	19.9	20.3
	6H	19.5	20.1	20.0	20.5	21.1		19.0	19.5	19.5	20.0	20.5
	8H	19.6	20.2	20.1	20.6	21.2		19.1	19.6	19.6	20.1	20.6

Maximum UGR = 21.3

POLAR GRAPH



Maximum Candela = 1951.448 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.)