



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AERNG-P43-840-A-POE AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 18937.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 24-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' MULTI COMPARTMENT LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AERNG-P43-840-A-PoE AMBIENT ONLY
 [LAMPCAT] HLM 80 CRI, 4000K CCT
 [SEARCH_SOURCETYPE]LED
 [SEARCH_APPLICATION]INDOOR,DIRECT,MEDICAL
 [SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4336
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	33.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
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	1853	2086	2287
55	1493	1797	1973
65	1193	1535	1414
75	889	1020	828
85	717	652	505

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	1797.249	1797.249	1797.249	1797.249	1797.249	1797.249	1797.249	1797.249	1797.249
5	1788.327	1784.362	1784.362	1785.353	1791.301	1794.275	1797.249	1798.240	1800.223
10	1727.857	1730.831	1738.762	1750.657	1761.562	1771.475	1779.405	1781.388	1781.388
15	1638.639	1646.570	1665.405	1691.179	1709.022	1721.909	1728.848	1731.822	1731.822
20	1578.169	1588.082	1619.804	1652.517	1680.274	1697.126	1703.074	1698.118	1693.161
25	1432.446	1448.307	1484.986	1523.647	1557.351	1575.195	1575.195	1563.299	1554.378
30	1308.532	1328.358	1378.915	1432.446	1471.107	1493.907	1491.925	1473.090	1456.238
35	1187.592	1215.349	1271.854	1331.332	1365.037	1390.811	1386.846	1359.089	1340.254
40	1039.887	1076.565	1139.018	1201.470	1236.166	1252.027	1242.114	1204.444	1176.688
45	914.981	955.625	1029.973	1088.461	1129.105	1141.000	1118.200	1073.591	1034.930
50	751.415	791.067	869.381	921.920	961.573	971.486	946.703	894.164	853.520
55	597.761	640.388	719.693	766.284	790.076	811.885	795.032	733.571	692.927
60	461.951	504.578	575.952	599.744	598.753	630.475	647.327	583.883	541.256
65	351.916	396.525	453.030	439.151	417.342	461.951	511.517	458.978	417.342
70	249.811	288.472	314.246	269.637	259.724	287.481	349.933	334.072	293.428
75	160.593	188.349	184.384	155.636	149.688	164.558	201.236	219.080	183.393
80	96.157	111.027	100.123	84.262	79.305	87.235	106.070	118.957	102.105
85	43.618	47.583	39.652	33.705	30.731	30.731	36.679	39.652	37.670
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	651.55	N.A.	15.00
0-30	1360.29	N.A.	31.40
0-40	2183.95	N.A.	50.40
0-60	3655.33	N.A.	84.30
0-80	4288.92	N.A.	98.90
0-90	4336.03	N.A.	100.00
10-90	4166.15	N.A.	96.10
20-40	1532.4	N.A.	35.30
20-50	2344.12	N.A.	54.10
40-70	1906.19	N.A.	44.00
60-80	633.59	N.A.	14.60
70-80	198.77	N.A.	4.60
80-90	47.12	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	4336.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	169.88
10-20	481.66
20-30	708.75
30-40	823.66
40-50	811.72
50-60	659.66
60-70	434.82
70-80	198.77
80-90	47.12
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	114	114	114	114	111	111	111	111	107	107	107	102	102	102	98	98	98	96
1	105	101	97	94	103	99	95	92	95	92	89	91	89	87	88	86	84	82
2	96	89	83	78	94	87	82	77	84	79	75	81	77	73	78	75	72	70
3	88	79	71	66	86	77	71	65	75	69	64	72	67	63	70	65	62	60
4	81	70	62	56	79	69	62	56	67	60	55	64	59	54	62	58	54	52
5	75	63	55	49	73	62	54	49	60	53	48	58	52	48	56	51	47	45
6	69	57	49	43	68	56	48	43	54	48	42	53	47	42	51	46	42	40
7	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	41	37	35
8	60	47	40	34	59	47	39	34	46	39	34	44	38	34	43	38	33	32
9	56	44	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29
10	53	40	33	28	51	40	33	28	39	32	28	38	32	28	37	32	28	26

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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

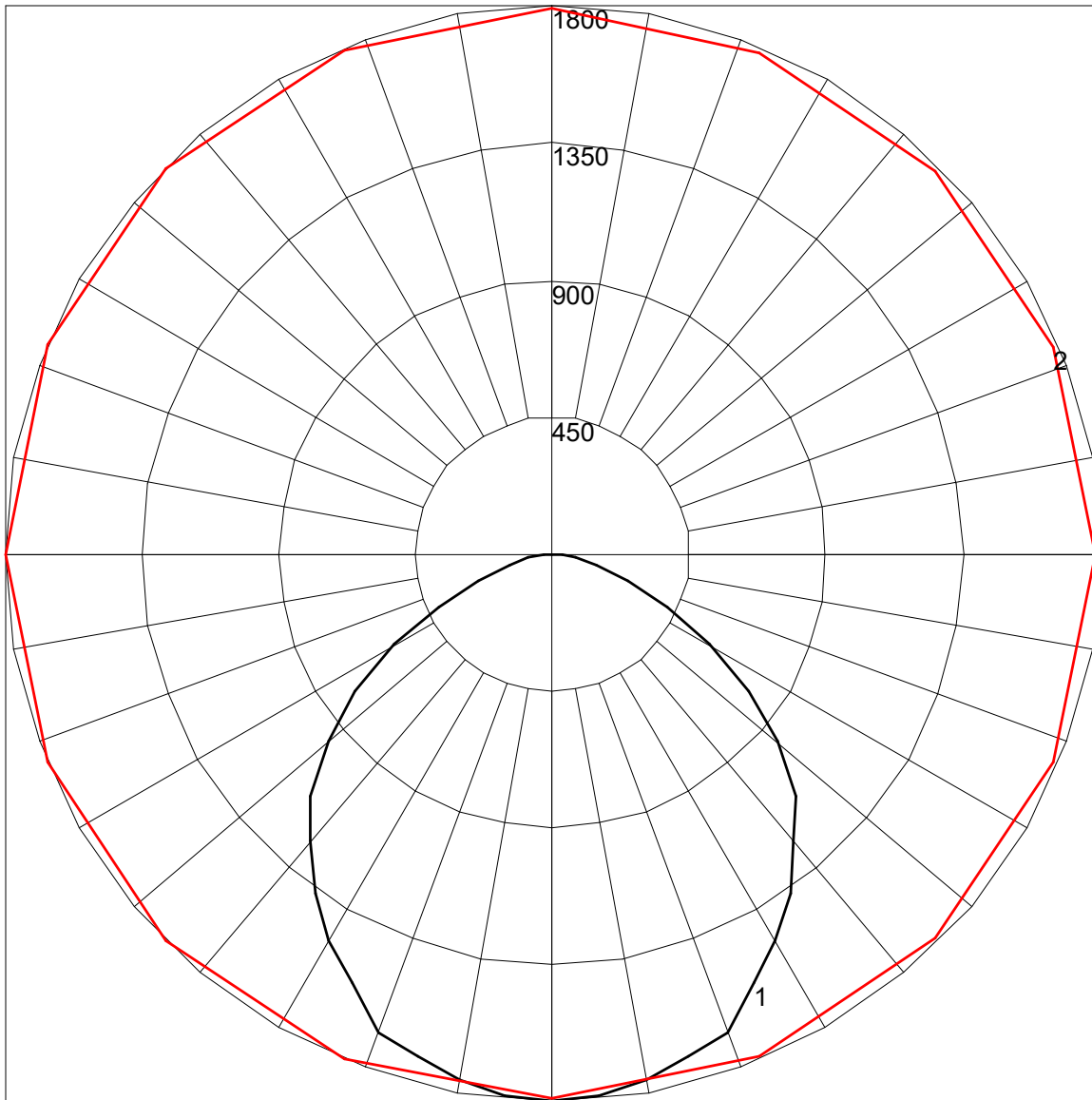
X=2H	Y=2H	12.9	14.5	13.3	14.8	15.1	14.4	16.0	14.8	16.3	16.6
	3H	14.3	15.7	14.7	16.1	16.4	15.5	16.9	15.9	17.2	17.6
	4H	14.8	16.1	15.2	16.5	16.8	15.7	17.1	16.1	17.4	17.8
	6H	15.1	16.3	15.5	16.7	17.1	15.9	17.1	16.3	17.5	17.9
	8H	15.2	16.4	15.6	16.8	17.2	15.9	17.1	16.4	17.5	17.9
	12H	15.3	16.4	15.7	16.8	17.2	15.9	17.1	16.4	17.4	17.9

UGR Viewed Endwise

4H	2H	13.7	15.0	14.1	15.4	15.8	15.0	16.3	15.4	16.6	17.0
	3H	15.3	16.4	15.7	16.8	17.2	16.2	17.3	16.6	17.7	18.1
	4H	15.9	16.8	16.3	17.3	17.7	16.5	17.5	17.0	17.9	18.4
	6H	16.3	17.1	16.7	17.6	18.0	16.8	17.6	17.2	18.1	18.5
	8H	16.4	17.2	16.9	17.7	18.1	16.8	17.6	17.3	18.1	18.5
	12H	16.5	17.2	17.0	17.7	18.2	16.9	17.6	17.3	18.0	18.5
8H	4H	16.1	16.9	16.5	17.3	17.8	16.7	17.5	17.2	18.0	18.4
	6H	16.6	17.3	17.1	17.8	18.2	17.0	17.7	17.5	18.2	18.6
	8H	16.8	17.4	17.3	17.9	18.4	17.1	17.7	17.6	18.2	18.7
	12H	17.0	17.5	17.5	18.0	18.6	17.2	17.7	17.7	18.2	18.8
12H	4H	16.1	16.8	16.6	17.3	17.7	16.7	17.5	17.2	17.9	18.4
	6H	16.6	17.2	17.2	17.7	18.2	17.0	17.6	17.6	18.1	18.6
	8H	16.9	17.4	17.4	17.9	18.5	17.2	17.7	17.7	18.2	18.8

Maximum UGR = 18.8

POLAR GRAPH



Maximum Candela = 1800.223 Located At Horizontal Angle = 180, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)