



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L44-835-A-DIM-UNV AMBIENT ONLY_.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] 17-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' RECESSED LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AEG-L44-835-A-DIM-UNV AMBIENT ONLY
 [LAMPCAT] HLM 80 CRI, 3500K CCT
 [SEARCH_SOURCETYPE]LED
 [SEARCH_APPLICATION]INDOOR,DIRECT
 [SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4440
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	35.1
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	2135	2187	2176
55	1811	1949	1918
65	1512	1664	1325
75	1151	1048	749
85	878	658	581

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1875.678	1875.678	1875.678	1875.678	1875.678
5	1867.727	1867.727	1866.357	1865.534	1865.534
10	1833.734	1831.541	1828.251	1824.139	1823.042
15	1758.345	1754.233	1746.283	1738.881	1736.962
20	1719.417	1715.579	1704.065	1690.906	1686.794
25	1588.651	1586.184	1574.122	1561.237	1551.368
30	1466.658	1462.546	1449.935	1433.213	1422.521
35	1347.132	1345.762	1337.263	1320.541	1315.058
40	1203.756	1206.498	1207.594	1195.806	1191.694
45	1054.349	1068.330	1079.570	1079.570	1074.361
50	881.366	897.540	921.390	932.082	925.502
55	725.379	745.940	780.756	787.335	768.145
60	573.779	596.532	636.009	593.791	567.747
65	446.303	473.169	490.988	428.483	390.926
70	324.858	355.014	336.920	267.562	239.600
75	208.074	227.538	189.432	147.488	135.426
80	123.364	126.105	98.691	81.420	78.679
85	53.458	47.427	40.025	35.913	35.364
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	673.31	N.A.	15.20
0-30	1399.17	N.A.	31.50
0-40	2231.77	N.A.	50.30
0-60	3734.82	N.A.	84.10
0-80	4389.58	N.A.	98.90
0-90	4440.12	N.A.	100.00
10-90	4263.22	N.A.	96.00
20-40	1558.46	N.A.	35.10
20-50	2381.09	N.A.	53.60
40-70	1952.07	N.A.	44.00
60-80	654.76	N.A.	14.70
70-80	205.74	N.A.	4.60
80-90	50.55	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	4440.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	176.91
10-20	496.40
20-30	725.87
30-40	832.60
40-50	822.62
50-60	680.42
60-70	449.02
70-80	205.74
80-90	50.55
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

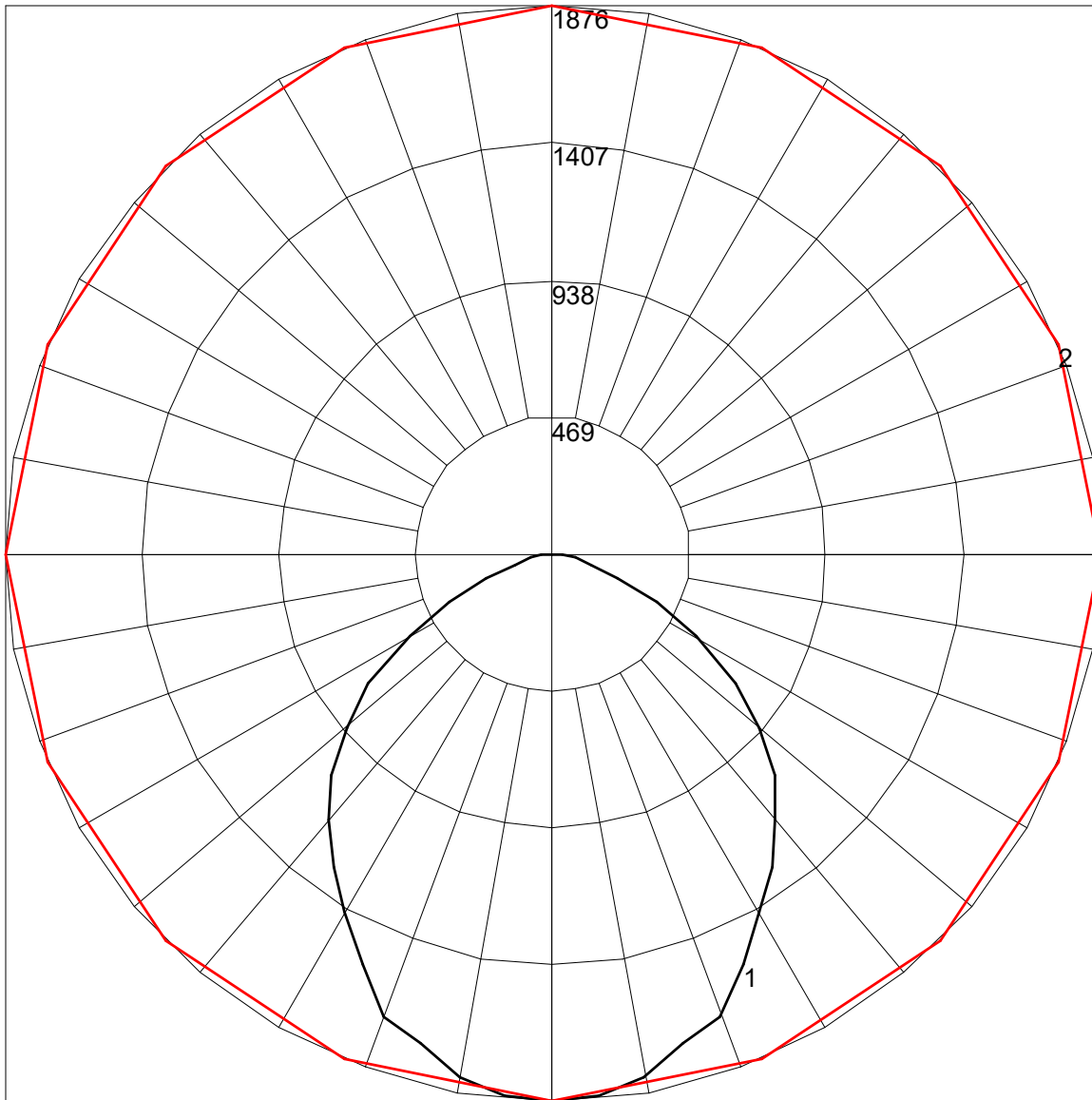
X=2H	Y=2H	13.9	15.5	14.3	15.8	16.1	14.1	15.7	14.5	16.0	16.3
	3H	15.5	16.9	15.9	17.2	17.6	15.1	16.5	15.5	16.8	17.2
	4H	16.0	17.3	16.4	17.6	18.0	15.3	16.6	15.7	17.0	17.4
	6H	16.3	17.5	16.7	17.9	18.3	15.5	16.7	15.9	17.1	17.4
	8H	16.4	17.6	16.8	18.0	18.4	15.5	16.7	15.9	17.1	17.5
	12H	16.5	17.6	16.9	18.0	18.4	15.5	16.6	16.0	17.0	17.5

UGR Viewed Endwise

4H	2H	14.6	15.9	15.0	16.2	16.6	14.7	16.0	15.1	16.4	16.8
	3H	16.3	17.4	16.7	17.8	18.2	15.9	17.0	16.3	17.4	17.8
	4H	16.9	17.9	17.4	18.3	18.8	16.2	17.1	16.6	17.6	18.0
	6H	17.4	18.2	17.8	18.7	19.1	16.4	17.2	16.8	17.7	18.1
	8H	17.5	18.3	18.0	18.7	19.2	16.4	17.2	16.9	17.7	18.1
	12H	17.6	18.3	18.1	18.8	19.3	16.5	17.2	16.9	17.7	18.1
8H	4H	17.1	17.9	17.5	18.3	18.8	16.4	17.2	16.8	17.6	18.1
	6H	17.6	18.3	18.1	18.8	19.2	16.7	17.3	17.1	17.8	18.3
	8H	17.8	18.4	18.3	18.9	19.4	16.7	17.3	17.3	17.8	18.3
	12H	18.0	18.5	18.5	19.0	19.5	16.9	17.4	17.4	17.9	18.4
12H	4H	17.0	17.8	17.5	18.2	18.7	16.4	17.1	16.9	17.6	18.1
	6H	17.6	18.2	18.1	18.7	19.2	16.7	17.3	17.2	17.7	18.3
	8H	17.9	18.4	18.4	18.9	19.4	16.8	17.3	17.3	17.8	18.4

Maximum UGR = 19.5

POLAR GRAPH



Maximum Candela = 1875.678 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)