



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L44-835-A-DIM-UNV EXAM 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] 18-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 EXAM 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	8111
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	63.3
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	3901	3994	3975
55	3309	3561	3504
65	2763	3039	2420
75	2103	1915	1369
85	1605	1201	1062

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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	3426.491	3426.491	3426.491	3426.491	3426.491
5	3411.968	3411.968	3409.464	3407.962	3407.962
10	3349.868	3345.862	3339.852	3332.340	3330.337
15	3212.148	3204.636	3190.112	3176.591	3173.085
20	3141.034	3134.023	3112.989	3088.950	3081.438
25	2902.151	2897.644	2875.608	2852.071	2834.042
30	2679.294	2671.782	2648.745	2618.196	2598.665
35	2460.944	2458.440	2442.915	2412.366	2402.350
40	2199.024	2204.032	2206.035	2184.501	2176.989
45	1926.087	1951.628	1972.161	1972.161	1962.645
50	1610.080	1639.628	1683.197	1702.729	1690.709
55	1325.124	1362.684	1426.286	1438.305	1403.249
60	1048.180	1089.746	1161.862	1084.738	1037.162
65	815.307	864.385	896.937	782.754	714.144
70	593.451	648.539	615.486	488.783	437.701
75	380.109	415.666	346.055	269.432	247.396
80	225.361	230.369	180.289	148.738	143.730
85	97.657	86.639	73.117	65.605	64.604
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1230.00	N.A.	15.20
0-30	2556.01	N.A.	31.50
0-40	4077.00	N.A.	50.30
0-60	6822.77	N.A.	84.10
0-80	8018.89	N.A.	98.90
0-90	8111.23	N.A.	100.00
10-90	7788.05	N.A.	96.00
20-40	2847.00	N.A.	35.10
20-50	4349.77	N.A.	53.60
40-70	3566.05	N.A.	44.00
60-80	1196.12	N.A.	14.70
70-80	375.84	N.A.	4.60
80-90	92.34	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	8111.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	323.17
10-20	906.82
20-30	1326.01
30-40	1520.99
40-50	1502.77
50-60	1243.00
60-70	820.28
70-80	375.84
80-90	92.34
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

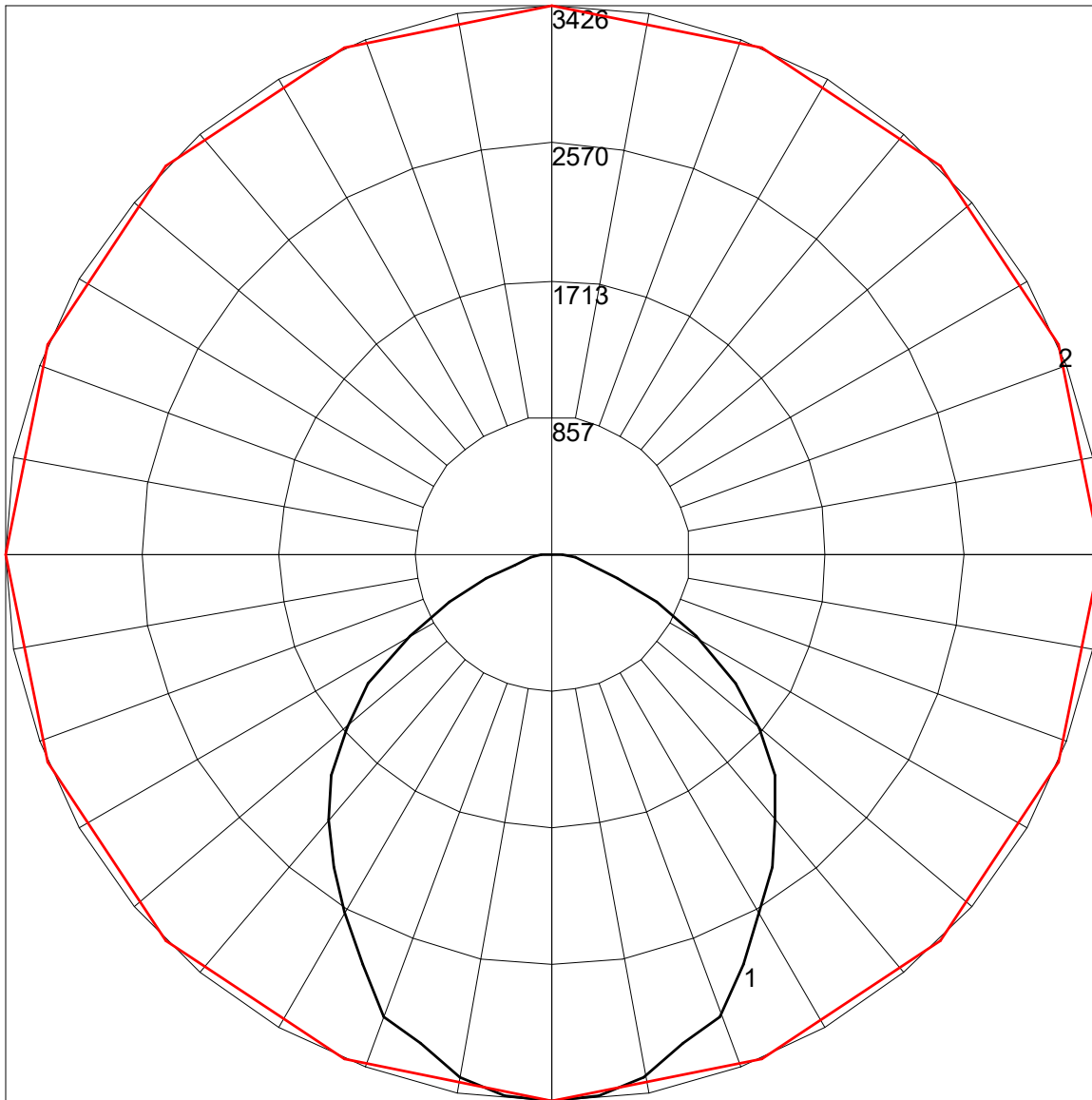
X=2H	Y=2H	16.0	17.6	16.4	17.9	18.2	16.2	17.8	16.6	18.1	18.4
	3H	17.6	19.0	18.0	19.3	19.7	17.2	18.6	17.6	18.9	19.3
	4H	18.1	19.4	18.5	19.7	20.1	17.4	18.7	17.8	19.1	19.5
	6H	18.4	19.6	18.8	20.0	20.4	17.6	18.8	18.0	19.2	19.5
	8H	18.5	19.7	18.9	20.1	20.5	17.6	18.8	18.0	19.2	19.6
	12H	18.6	19.7	19.0	20.1	20.5	17.6	18.7	18.1	19.1	19.6

UGR Viewed Endwise

4H	2H	16.7	18.0	17.1	18.3	18.7	16.8	18.1	17.2	18.5	18.9
	3H	18.4	19.5	18.8	19.9	20.3	18.0	19.1	18.4	19.5	19.9
	4H	19.0	20.0	19.5	20.4	20.9	18.3	19.2	18.7	19.7	20.1
	6H	19.5	20.3	19.9	20.8	21.2	18.5	19.3	18.9	19.8	20.2
	8H	19.6	20.4	20.1	20.8	21.3	18.5	19.3	19.0	19.8	20.2
	12H	19.7	20.4	20.2	20.9	21.4	18.6	19.3	19.0	19.8	20.2
8H	4H	19.2	20.0	19.6	20.4	20.9	18.5	19.3	18.9	19.7	20.2
	6H	19.7	20.4	20.2	20.9	21.3	18.8	19.4	19.2	19.9	20.4
	8H	19.9	20.5	20.4	21.0	21.5	18.8	19.4	19.4	19.9	20.4
	12H	20.1	20.6	20.6	21.1	21.6	19.0	19.5	19.5	20.0	20.5
12H	4H	19.1	19.9	19.6	20.3	20.8	18.5	19.2	19.0	19.7	20.2
	6H	19.7	20.3	20.2	20.8	21.3	18.8	19.4	19.3	19.8	20.4
	8H	20.0	20.5	20.5	21.0	21.5	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 3426.491 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.)