



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AERNG-L44-8TW-A-DALI-UNV 4000K NURSE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from BALLABS TEST NO. 18940.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' MULTI COMPARTMENT LED TROFFER
 [MORE] CLEAR ACRYLIC LENS
 [LUMCAT] AMD4AERNG-L44-8TW-A-DALI-UNV 4000k NURSE ONLY
 [_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	106
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	9
Total Luminaire Watts	11.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.02
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	0.02
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	0	44	107
55	0	101	205
65	0	201	158
75	0	58	6
85	0	0	0

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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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039
15	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039	1.039
20	0.000	0.000	0.000	1.039	1.039	1.039	0.000	0.000	0.000
25	0.000	0.000	1.039	4.157	9.353	4.157	1.039	0.000	0.000
30	1.039	1.039	7.275	16.627	18.706	16.627	7.275	1.039	1.039
35	1.039	1.039	10.392	24.941	29.098	24.941	10.392	1.039	1.039
40	0.000	1.039	12.471	32.216	37.412	32.216	12.471	0.000	0.000
45	0.000	3.118	21.824	43.647	53.000	43.647	16.627	3.118	0.000
50	0.000	7.275	32.216	60.275	71.706	60.275	32.216	7.275	0.000
55	0.000	7.275	40.529	74.824	82.098	71.706	37.412	7.275	0.000
60	0.000	12.471	54.039	78.980	78.980	74.824	46.765	9.353	0.000
65	0.000	15.588	59.235	54.039	46.765	50.922	46.765	9.353	0.000
70	0.000	16.627	37.412	21.824	15.588	16.627	31.176	10.392	0.000
75	0.000	16.627	10.392	1.039	1.039	1.039	7.275	10.392	0.000
80	0.000	4.157	1.039	1.039	1.039	1.039	1.039	1.039	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : AMD4AERNG-L44-8TW-A-DALI-UNV 4000K NURSE ONLY_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	0.28	N.A.	0.30
0-30	1.99	N.A.	1.90
0-40	9.98	N.A.	9.40
0-60	64.39	N.A.	60.60
0-80	105.86	N.A.	99.70
0-90	106.21	N.A.	100.00
10-90	106.17	N.A.	100.00
20-40	9.70	N.A.	9.10
20-50	28.46	N.A.	26.80
40-70	87.48	N.A.	82.40
60-80	41.47	N.A.	39.00
70-80	8.40	N.A.	7.90
80-90	0.35	N.A.	0.30
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	106.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.04
10-20	0.24
20-30	1.71
30-40	7.99
40-50	18.76
50-60	35.65
60-70	33.07
70-80	8.40
80-90	0.35
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	62	62	62	62	61	61	61	61	58	58	58	55	55	55	53	53	53	52
1	55	52	50	47	54	51	49	46	49	47	45	47	45	43	45	43	42	41
2	48	43	38	35	47	42	38	34	40	36	33	38	35	33	36	34	32	30
3	42	35	30	26	41	34	29	25	33	28	25	31	27	24	30	27	24	22
4	37	29	24	19	36	29	23	19	27	22	19	26	22	18	25	21	18	17
5	33	25	19	15	32	24	19	14	23	18	14	22	17	14	21	17	14	12
6	30	21	15	11	29	21	15	11	20	15	11	19	14	11	18	14	11	9
7	27	18	13	9	26	18	13	9	17	12	9	16	12	9	15	11	8	7
8	25	16	11	7	24	16	11	7	15	10	7	14	10	7	14	10	7	6
9	23	14	9	6	22	14	9	6	13	9	6	13	9	6	12	8	6	4
10	21	13	8	5	20	13	8	5	12	8	5	11	7	5	11	7	5	3

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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	0.0	0.1	0.0	0.5	0.8	UGR Viewed Endwise			
	3H	1.7	3.6	2.1	3.9	4.3	13.5	15.6	13.9	15.9
	4H	2.9	4.7	3.3	5.0	5.4	14.2	16.1	14.6	16.4
	6H	3.1	4.8	3.5	5.1	5.5	14.2	15.9	14.6	16.3
	8H	3.1	4.7	3.5	5.1	5.5	14.1	15.8	14.6	16.2
	12H	3.1	4.6	3.5	5.0	5.4	14.1	15.7	14.5	16.1

4H	2H	9.2	10.9	9.6	11.3	11.7	14.1	15.9	14.5	16.3
	3H	10.3	11.8	10.7	12.2	12.6	14.9	16.4	15.3	16.8
	4H	11.0	12.3	11.4	12.7	13.1	14.9	16.2	15.3	16.6
	6H	11.1	12.3	11.5	12.7	13.2	14.9	16.1	15.3	16.5
	8H	11.1	12.2	11.6	12.7	13.1	14.9	16.0	15.3	16.4
	12H	11.1	12.1	11.6	12.6	13.0	14.9	15.9	15.3	16.3

8H	4H	11.3	12.4	11.8	12.8	13.3	15.0	16.1	15.4	16.5
	6H	11.5	12.4	12.0	12.9	13.4	14.9	15.9	15.4	16.3
	8H	11.5	12.3	12.0	12.8	13.3	14.9	15.7	15.4	16.2
	12H	11.5	12.2	12.0	12.7	13.3	15.0	15.7	15.5	16.1

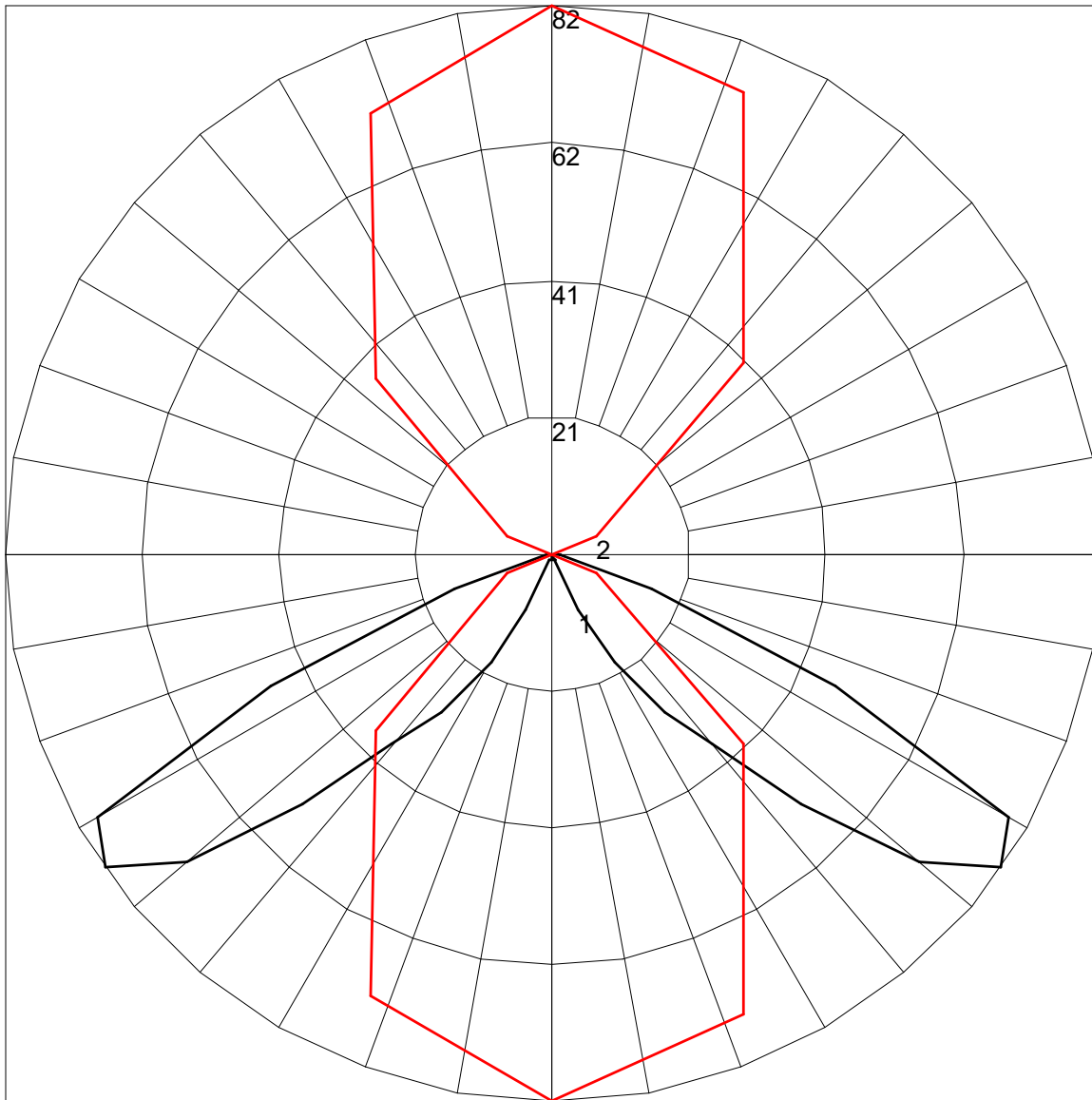
12H	4H	11.3	12.3	11.8	12.8	13.2	15.0	16.0	15.4	16.4
	6H	11.5	12.3	12.0	12.8	13.3	15.0	15.8	15.5	16.2
	8H	11.5	12.2	12.0	12.7	13.3	15.0	15.7	15.5	16.1

Maximum UGR = 17.2

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POLAR GRAPH



Maximum Candela = 82.098 Located At Horizontal Angle = 90, Vertical Angle = 55

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (55) (Through Max. Cd.)