



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2ARNG-L27-835-A-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] 18-AUG-2020  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 2x2' MULTI COMPARTMENT LED TROFFER  
 [MORE] CLEAR ACRYLIC LENS  
 [LUMCAT] AMD2ARNG-L27-835-A-NURSE ONLY  
 [LAMPCAT] HLM 80 CRI, 3500K 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	108
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	9
Total Luminaire Watts	12
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)	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	0	92	223
55	0	211	427
65	0	418	330
75	0	120	12
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>
<b>0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>10</b>	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059
<b>15</b>	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059
<b>20</b>	0.000	0.000	0.000	1.059	1.059	1.059	0.000	0.000	0.000
<b>25</b>	0.000	0.000	1.059	4.235	9.529	4.235	1.059	0.000	0.000
<b>30</b>	1.059	1.059	7.412	16.941	19.059	16.941	7.412	1.059	1.059
<b>35</b>	1.059	1.059	10.588	25.412	29.647	25.412	10.588	1.059	1.059
<b>40</b>	0.000	1.059	12.706	32.824	38.118	32.824	12.706	0.000	0.000
<b>45</b>	0.000	3.176	22.235	44.471	54.000	44.471	16.941	3.176	0.000
<b>50</b>	0.000	7.412	32.824	61.412	73.059	61.412	32.824	7.412	0.000
<b>55</b>	0.000	7.412	41.294	76.235	83.647	73.059	38.118	7.412	0.000
<b>60</b>	0.000	12.706	55.059	80.471	80.471	76.235	47.647	9.529	0.000
<b>65</b>	0.000	15.882	60.353	55.059	47.647	51.882	47.647	9.529	0.000
<b>70</b>	0.000	16.941	38.118	22.235	15.882	16.941	31.765	10.588	0.000
<b>75</b>	0.000	16.941	10.588	1.059	1.059	1.059	7.412	10.588	0.000
<b>80</b>	0.000	4.235	1.059	1.059	1.059	1.059	1.059	1.059	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	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	0.28	N.A.	0.30
0-30	2.03	N.A.	1.90
0-40	10.17	N.A.	9.40
0-60	65.60	N.A.	60.60
0-80	107.86	N.A.	99.70
0-90	108.22	N.A.	100.00
10-90	108.18	N.A.	100.00
20-40	9.88	N.A.	9.10
20-50	29.00	N.A.	26.80
40-70	89.13	N.A.	82.40
60-80	42.25	N.A.	39.00
70-80	8.56	N.A.	7.90
80-90	0.36	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	108.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	0.04
10-20	0.25
20-30	1.75
30-40	8.14
40-50	19.12
50-60	36.32
60-70	33.70
70-80	8.56
80-90	0.36
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	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	106	101	95	91	104	98	94	89	94	90	86	90	87	84	86	84	81	79
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	65	61	59
3	82	68	58	49	79	66	57	49	63	55	48	60	53	47	57	51	46	43
4	72	57	45	37	69	55	45	37	52	43	36	50	42	35	47	40	35	32
5	64	48	36	28	62	47	36	28	44	35	27	42	34	27	40	32	27	24
6	57	41	30	22	55	40	29	22	38	28	21	36	27	21	34	26	21	18
7	52	35	25	17	50	34	24	17	33	23	17	31	23	16	30	22	16	14
8	47	31	21	14	46	30	20	14	29	20	13	27	19	13	26	19	13	11
9	44	28	18	11	42	27	17	11	26	17	11	24	16	11	23	16	11	8
10	40	25	15	9	39	24	15	9	23	15	9	22	14	9	21	14	9	7

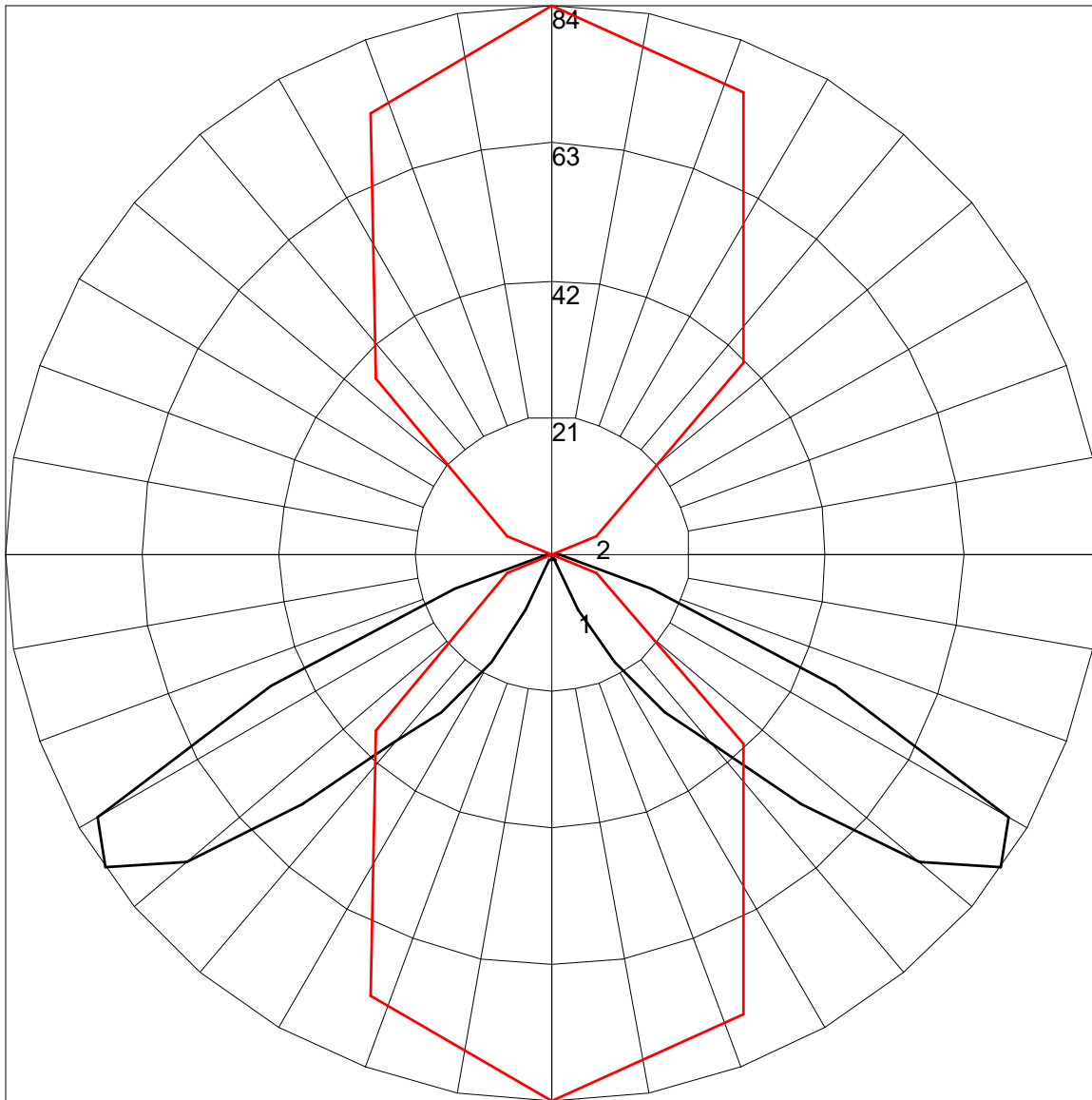
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**UGR TABLE - CORRECTED**

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					UGR Viewed Endwise				
X=2H	Y=2H	0.0	0.0	0.0	0.0	0.0	11.3	13.4	11.7	13.7	14.0
	3H	0.0	1.4	0.0	1.7	2.1	12.0	13.9	12.4	14.2	14.5
	4H	0.7	2.5	1.1	2.8	3.2	12.0	13.7	12.4	14.1	14.4
	6H	0.9	2.6	1.3	2.9	3.3	11.9	13.6	12.4	14.0	14.3
	8H	0.9	2.5	1.3	2.9	3.3	11.9	13.5	12.3	13.9	14.3
	12H	0.9	2.4	1.3	2.8	3.2	11.9	13.4	12.3	13.8	14.3
4H	2H	7.0	8.7	7.4	9.1	9.5	11.9	13.7	12.3	14.1	14.4
	3H	8.1	9.6	8.5	10.0	10.4	12.7	14.2	13.1	14.6	15.0
	4H	8.8	10.1	9.2	10.5	10.9	12.7	14.0	13.1	14.4	14.9
	6H	8.9	10.1	9.3	10.5	11.0	12.7	13.9	13.1	14.3	14.7
	8H	8.9	10.0	9.4	10.5	10.9	12.7	13.8	13.1	14.2	14.7
	12H	8.9	9.9	9.4	10.4	10.8	12.7	13.7	13.1	14.1	14.6
8H	4H	9.1	10.2	9.6	10.6	11.1	12.8	13.9	13.2	14.3	14.8
	6H	9.3	10.2	9.8	10.7	11.2	12.7	13.7	13.2	14.1	14.6
	8H	9.3	10.1	9.8	10.6	11.1	12.7	13.5	13.2	14.0	14.5
	12H	9.3	10.0	9.8	10.5	11.1	12.8	13.5	13.3	13.9	14.5
12H	4H	9.1	10.1	9.6	10.6	11.0	12.8	13.8	13.2	14.2	14.7
	6H	9.3	10.1	9.8	10.6	11.1	12.8	13.6	13.3	14.0	14.6
	8H	9.3	10.0	9.8	10.5	11.1	12.8	13.5	13.3	13.9	14.5

Maximum UGR = 15.0

POLAR GRAPH



Maximum Candela = 83.647 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.)