



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P43-840-A-POE 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] 24-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' RECESSED LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AEG-P43-840-A-PoE AMBIENT ONLY
 [LAMPCAT] HLM 80 CRI, 4000K 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	4327
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	32.5
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	2081	2131	2121
55	1765	1900	1869
65	1474	1621	1291
75	1122	1022	730
85	856	641	566

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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	1827.941	1827.941	1827.941	1827.941	1827.941
5	1820.193	1820.193	1818.857	1818.056	1818.056
10	1787.065	1784.927	1781.721	1777.714	1776.645
15	1713.594	1709.587	1701.839	1694.626	1692.756
20	1675.657	1671.917	1660.696	1647.872	1643.864
25	1548.219	1545.815	1534.060	1521.503	1511.885
30	1429.331	1425.324	1413.034	1396.737	1386.318
35	1312.847	1311.512	1303.229	1286.932	1281.589
40	1173.120	1175.792	1176.861	1165.372	1161.365
45	1027.515	1041.141	1052.095	1052.095	1047.018
50	858.935	874.697	897.941	908.360	901.948
55	706.918	726.955	760.885	767.297	748.596
60	559.176	581.350	619.822	578.679	553.298
65	434.944	461.126	478.492	417.578	380.977
70	316.590	345.978	328.345	260.753	233.502
75	202.778	221.747	184.611	143.735	131.979
80	120.224	122.896	96.179	79.348	76.676
85	52.097	46.219	39.006	34.999	34.464
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	656.17	N.A.	15.20
0-30	1363.56	N.A.	31.50
0-40	2174.97	N.A.	50.30
0-60	3639.76	N.A.	84.10
0-80	4277.86	N.A.	98.90
0-90	4327.12	N.A.	100.00
10-90	4154.72	N.A.	96.00
20-40	1518.8	N.A.	35.10
20-50	2320.49	N.A.	53.60
40-70	1902.39	N.A.	44.00
60-80	638.10	N.A.	14.70
70-80	200.50	N.A.	4.60
80-90	49.26	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	4327.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	172.40
10-20	483.77
20-30	707.39
30-40	811.41
40-50	801.69
50-60	663.11
60-70	437.60
70-80	200.50
80-90	49.26
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	164	164	164	164	160	160	160	160	153	153	153	147	147	147	141	141	141	138
1	151	145	140	135	147	142	137	133	136	132	129	131	128	125	126	123	121	118
2	138	128	119	112	135	125	117	110	120	114	108	116	110	105	112	107	103	100
3	127	113	103	94	124	111	101	93	107	99	92	103	96	90	100	94	89	86
4	117	101	89	81	114	99	88	80	96	86	79	93	85	78	90	83	77	74
5	108	91	79	70	105	89	78	70	86	76	69	84	75	68	81	74	67	65
6	100	82	70	62	97	81	69	61	78	68	61	76	67	60	74	66	60	57
7	93	75	63	55	90	73	62	55	71	61	54	69	60	54	68	60	53	51
8	86	68	57	49	84	67	56	49	65	56	49	64	55	48	62	54	48	46
9	81	63	52	44	79	62	51	44	60	51	44	59	50	44	58	50	44	41
10	76	58	47	40	74	57	47	40	56	47	40	55	46	40	54	46	40	37

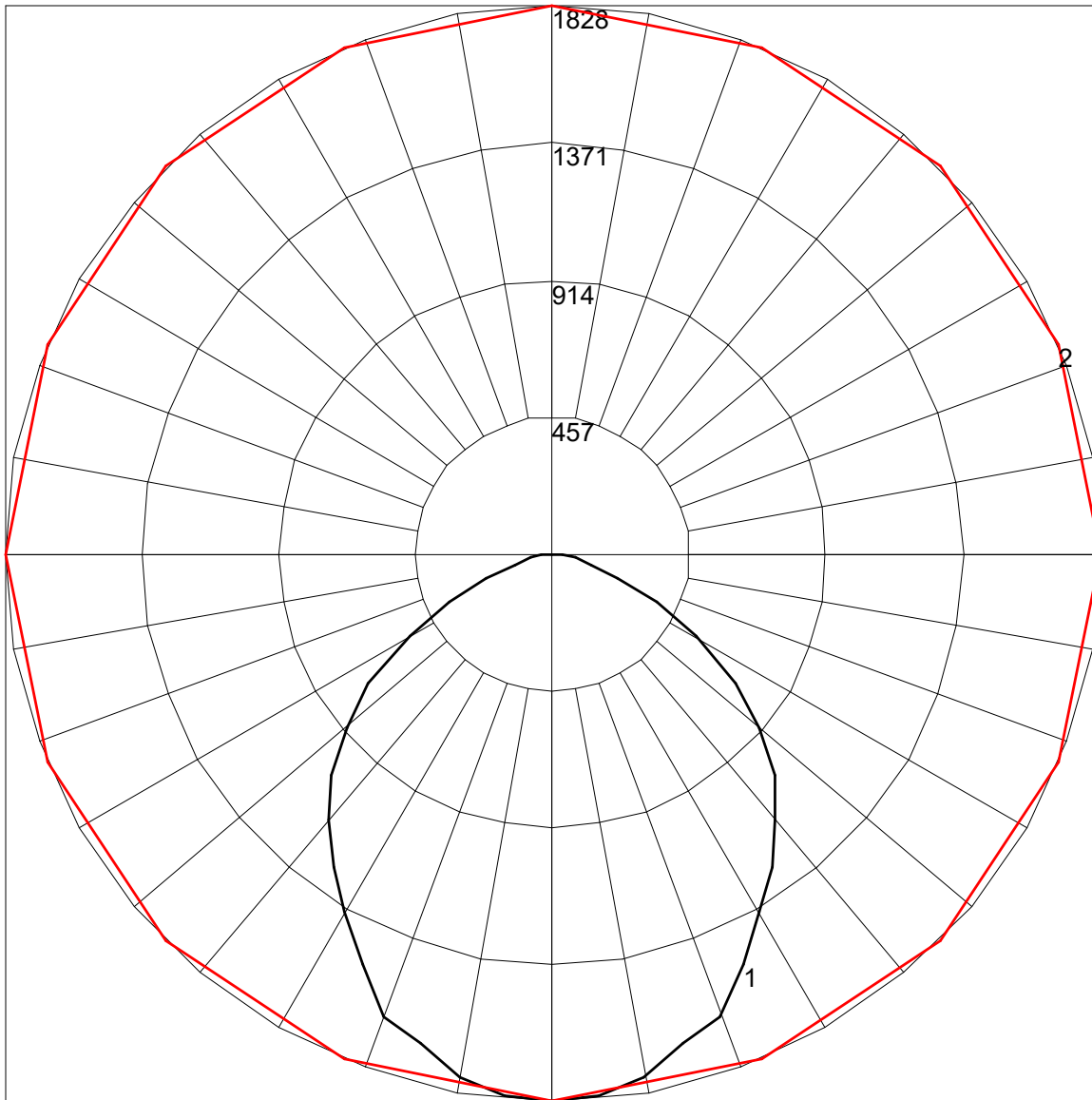
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UGR TABLE - CORRECTED

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	12.7	14.3	13.1	14.6	14.9	12.9	14.5	13.3	14.8	15.1
	3H	14.3	15.7	14.7	16.0	16.4	13.9	15.3	14.3	15.6	16.0
	4H	14.8	16.1	15.2	16.4	16.8	14.1	15.4	14.5	15.8	16.2
	6H	15.1	16.3	15.5	16.7	17.1	14.3	15.5	14.7	15.9	16.2
	8H	15.2	16.4	15.6	16.8	17.2	14.3	15.5	14.7	15.9	16.3
	12H	15.3	16.4	15.7	16.8	17.2	14.3	15.4	14.8	15.8	16.3
4H	2H	13.4	14.7	13.8	15.0	15.4	13.5	14.8	13.9	15.2	15.6
	3H	15.1	16.2	15.5	16.6	17.0	14.7	15.8	15.1	16.2	16.6
	4H	15.7	16.7	16.2	17.1	17.6	15.0	15.9	15.4	16.4	16.8
	6H	16.2	17.0	16.6	17.5	17.9	15.2	16.0	15.6	16.5	16.9
	8H	16.3	17.1	16.8	17.5	18.0	15.2	16.0	15.7	16.5	16.9
	12H	16.4	17.1	16.9	17.6	18.1	15.3	16.0	15.7	16.5	16.9
8H	4H	15.9	16.7	16.3	17.1	17.6	15.2	16.0	15.6	16.4	16.9
	6H	16.4	17.1	16.9	17.6	18.0	15.5	16.1	15.9	16.6	17.1
	8H	16.6	17.2	17.1	17.7	18.2	15.5	16.1	16.1	16.6	17.1
	12H	16.8	17.3	17.3	17.8	18.3	15.7	16.2	16.2	16.7	17.2
12H	4H	15.8	16.6	16.3	17.0	17.5	15.2	15.9	15.7	16.4	16.9
	6H	16.4	17.0	16.9	17.5	18.0	15.5	16.1	16.0	16.5	17.1
	8H	16.7	17.2	17.2	17.7	18.2	15.6	16.1	16.1	16.6	17.2

Maximum UGR = 18.3

POLAR GRAPH



Maximum Candela = 1827.941 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.)