



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P43-8TW-A-POE 4000K ALL ON_.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] 25-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' RECESSED LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AEG-P43-8TW-A-PoE 4000k ALL ON
 [_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	10376
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	88.4
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	4990	5110	5085
55	4233	4556	4482
65	3534	3888	3096
75	2691	2450	1751
85	2053	1537	1358

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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	4383.341	4383.341	4383.341	4383.341	4383.341
5	4364.762	4364.762	4361.559	4359.637	4359.637
10	4285.321	4280.196	4272.508	4262.898	4260.336
15	4109.142	4099.532	4080.953	4063.656	4059.171
20	4018.169	4009.200	3982.293	3951.542	3941.932
25	3712.578	3706.812	3678.624	3648.513	3625.450
30	3427.488	3417.878	3388.408	3349.329	3324.343
35	3148.164	3144.961	3125.100	3086.021	3073.208
40	2813.103	2819.509	2822.072	2794.524	2784.914
45	2463.948	2496.621	2522.888	2522.888	2510.715
50	2059.696	2097.495	2153.231	2178.217	2162.841
55	1695.165	1743.214	1824.577	1839.953	1795.107
60	1340.885	1394.059	1486.313	1387.652	1326.790
65	1042.981	1105.765	1147.408	1001.339	913.570
70	759.173	829.644	787.361	625.276	559.930
75	486.255	531.741	442.691	344.671	316.482
80	288.293	294.700	230.635	190.274	183.867
85	124.927	110.833	93.535	83.925	82.644
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1573.48	N.A.	15.20
0-30	3269.78	N.A.	31.50
0-40	5215.5	N.A.	50.30
0-60	8728.03	N.A.	84.10
0-80	10258.17	N.A.	98.90
0-90	10376.29	N.A.	100.00
10-90	9962.87	N.A.	96.00
20-40	3642.03	N.A.	35.10
20-50	5564.45	N.A.	53.60
40-70	4561.87	N.A.	44.00
60-80	1530.14	N.A.	14.70
70-80	480.80	N.A.	4.60
80-90	118.12	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	10376.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	413.42
10-20	1160.06
20-30	1696.3
30-40	1945.73
40-50	1922.42
50-60	1590.11
60-70	1049.34
70-80	480.80
80-90	118.12
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	135	135	135	135	131	131	131	131	126	126	126	120	120	120	115	115	115	113
1	124	119	115	111	121	117	113	109	112	109	105	107	105	102	103	101	99	97
2	114	105	98	92	111	103	96	91	99	93	89	95	91	87	92	88	85	82
3	104	93	84	77	101	91	83	77	88	81	75	85	79	74	82	77	73	70
4	96	83	73	66	93	81	73	66	79	71	65	76	69	64	74	68	63	61
5	88	74	65	58	86	73	64	57	71	63	57	69	62	56	67	60	55	53
6	82	67	58	51	80	66	57	50	64	56	50	62	55	49	61	54	49	47
7	76	61	52	45	74	60	51	45	59	50	44	57	50	44	55	49	44	42
8	71	56	47	40	69	55	46	40	54	46	40	52	45	40	51	44	39	37
9	66	52	43	36	65	51	42	36	50	42	36	48	41	36	47	41	36	34
10	62	48	39	33	61	47	39	33	46	38	33	45	38	33	44	37	33	31

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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

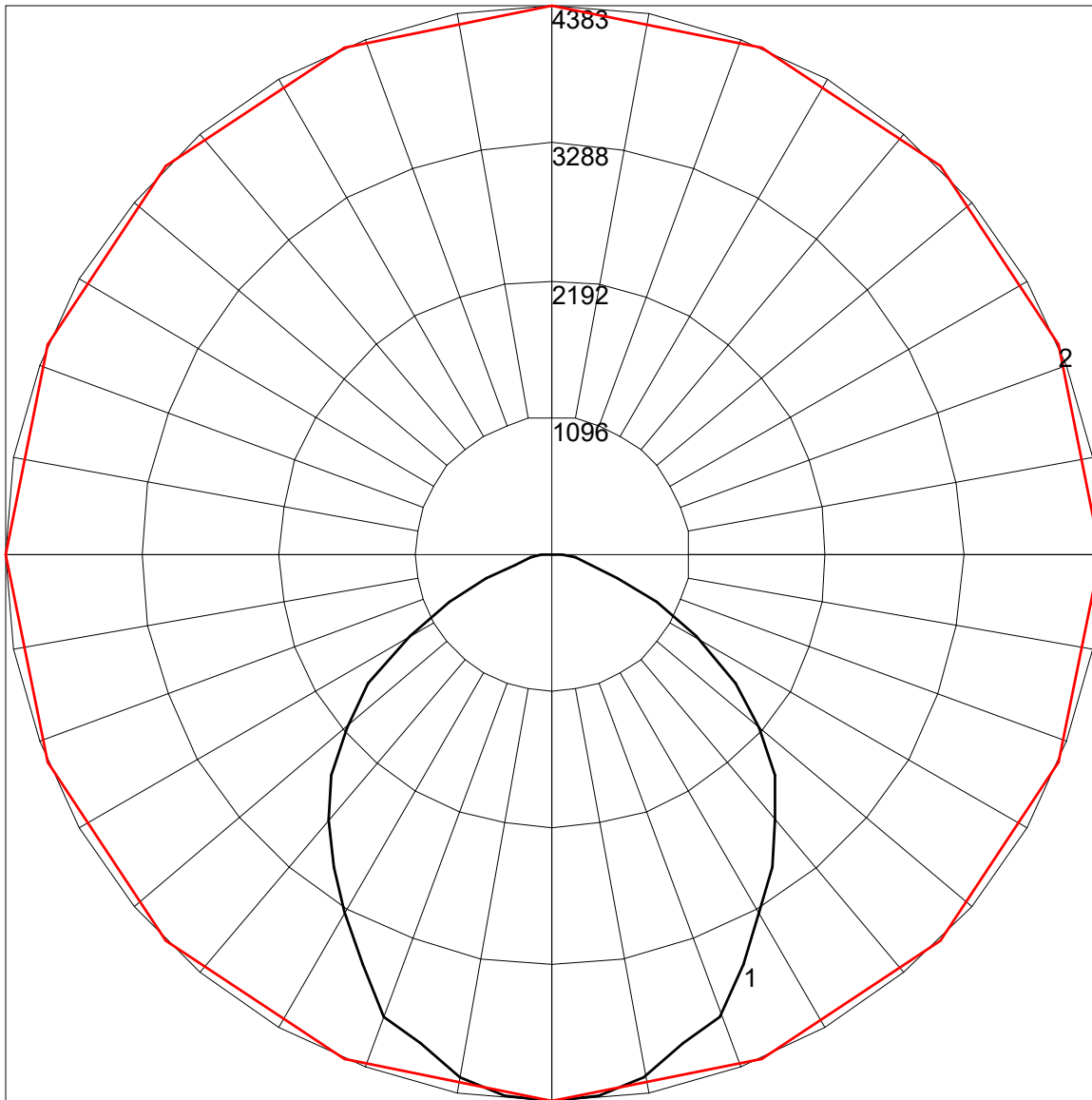
X=2H	Y=2H	16.4	18.0	16.8	18.3	18.6	16.6	18.2	17.0	18.5	18.8
	3H	18.0	19.4	18.4	19.7	20.1	17.6	19.0	18.0	19.3	19.7
	4H	18.5	19.8	18.9	20.1	20.5	17.8	19.1	18.2	19.5	19.9
	6H	18.8	20.0	19.2	20.4	20.8	18.0	19.2	18.4	19.6	19.9
	8H	18.9	20.1	19.3	20.5	20.9	18.0	19.2	18.4	19.6	20.0
	12H	19.0	20.1	19.4	20.5	20.9	18.0	19.1	18.5	19.5	20.0

UGR Viewed Endwise

4H	2H	17.1	18.4	17.5	18.7	19.1	17.2	18.5	17.6	18.9	19.3
	3H	18.8	19.9	19.2	20.3	20.7	18.4	19.5	18.8	19.9	20.3
	4H	19.4	20.4	19.9	20.8	21.3	18.7	19.6	19.1	20.1	20.5
	6H	19.9	20.7	20.3	21.2	21.6	18.9	19.7	19.3	20.2	20.6
	8H	20.0	20.8	20.5	21.2	21.7	18.9	19.7	19.4	20.2	20.6
	12H	20.1	20.8	20.6	21.3	21.8	19.0	19.7	19.4	20.2	20.6
8H	4H	19.6	20.4	20.0	20.8	21.3	18.9	19.7	19.3	20.1	20.6
	6H	20.1	20.8	20.6	21.3	21.7	19.2	19.8	19.6	20.3	20.8
	8H	20.3	20.9	20.8	21.4	21.9	19.2	19.8	19.8	20.3	20.8
	12H	20.5	21.0	21.0	21.5	22.0	19.4	19.9	19.9	20.4	20.9
12H	4H	19.5	20.3	20.0	20.7	21.2	18.9	19.6	19.4	20.1	20.6
	6H	20.1	20.7	20.6	21.2	21.7	19.2	19.8	19.7	20.2	20.8
	8H	20.4	20.9	20.9	21.4	21.9	19.3	19.8	19.8	20.3	20.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 4383.341 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.)