



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P43-8TW-A-POE 4000K 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] 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 EXAM ONLY
 [_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	6034
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	50.3
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	2902	2972	2957
55	2461	2649	2607
65	2055	2261	1800
75	1565	1425	1018
85	1194	894	790

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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	2549.063	2549.063	2549.063	2549.063	2549.063
5	2538.259	2538.259	2536.396	2535.278	2535.278
10	2492.061	2489.081	2484.610	2479.022	2477.531
15	2389.607	2384.018	2373.214	2363.155	2360.547
20	2336.703	2331.487	2315.840	2297.957	2292.368
25	2158.992	2155.639	2139.246	2121.735	2108.323
30	1993.202	1987.613	1970.476	1947.749	1933.220
35	1830.765	1828.902	1817.353	1794.627	1787.176
40	1635.916	1639.641	1641.132	1625.112	1619.523
45	1432.870	1451.871	1467.146	1467.146	1460.067
50	1197.784	1219.765	1252.178	1266.708	1257.766
55	985.797	1013.739	1061.054	1069.995	1043.916
60	779.770	810.693	864.342	806.967	771.574
65	606.529	643.040	667.257	582.313	531.272
70	441.485	482.467	457.878	363.620	325.618
75	282.774	309.226	257.440	200.438	184.045
80	167.652	171.378	134.122	110.651	106.925
85	72.649	64.453	54.394	48.806	48.060
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	915.03	N.A.	15.20
0-30	1901.49	N.A.	31.50
0-40	3032.99	N.A.	50.30
0-60	5075.65	N.A.	84.10
0-80	5965.48	N.A.	98.90
0-90	6034.17	N.A.	100.00
10-90	5793.75	N.A.	96.00
20-40	2117.96	N.A.	35.10
20-50	3235.92	N.A.	53.60
40-70	2652.88	N.A.	44.00
60-80	889.83	N.A.	14.70
70-80	279.60	N.A.	4.60
80-90	68.69	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	6034.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	240.42
10-20	674.61
20-30	986.46
30-40	1131.51
40-50	1117.95
50-60	924.70
60-70	610.23
70-80	279.60
80-90	68.69
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	74
1	82	78	75	73	80	77	74	72	74	71	69	71	69	67	68	67	65	64
2	75	69	64	60	73	68	63	60	65	61	58	63	60	57	60	58	56	54
3	69	61	55	51	67	60	55	50	58	53	50	56	52	49	54	51	48	46
4	63	55	48	44	61	54	48	43	52	47	43	50	46	42	48	45	42	40
5	58	49	43	38	57	48	42	38	47	41	37	45	40	37	44	40	36	35
6	54	44	38	33	52	44	38	33	42	37	33	41	36	33	40	36	32	31
7	50	40	34	30	49	40	34	29	39	33	29	37	33	29	36	32	29	27
8	47	37	31	27	45	36	30	26	35	30	26	34	30	26	34	29	26	25
9	44	34	28	24	43	33	28	24	33	27	24	32	27	24	31	27	24	22
10	41	31	26	22	40	31	25	22	30	25	22	30	25	22	29	25	21	20

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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

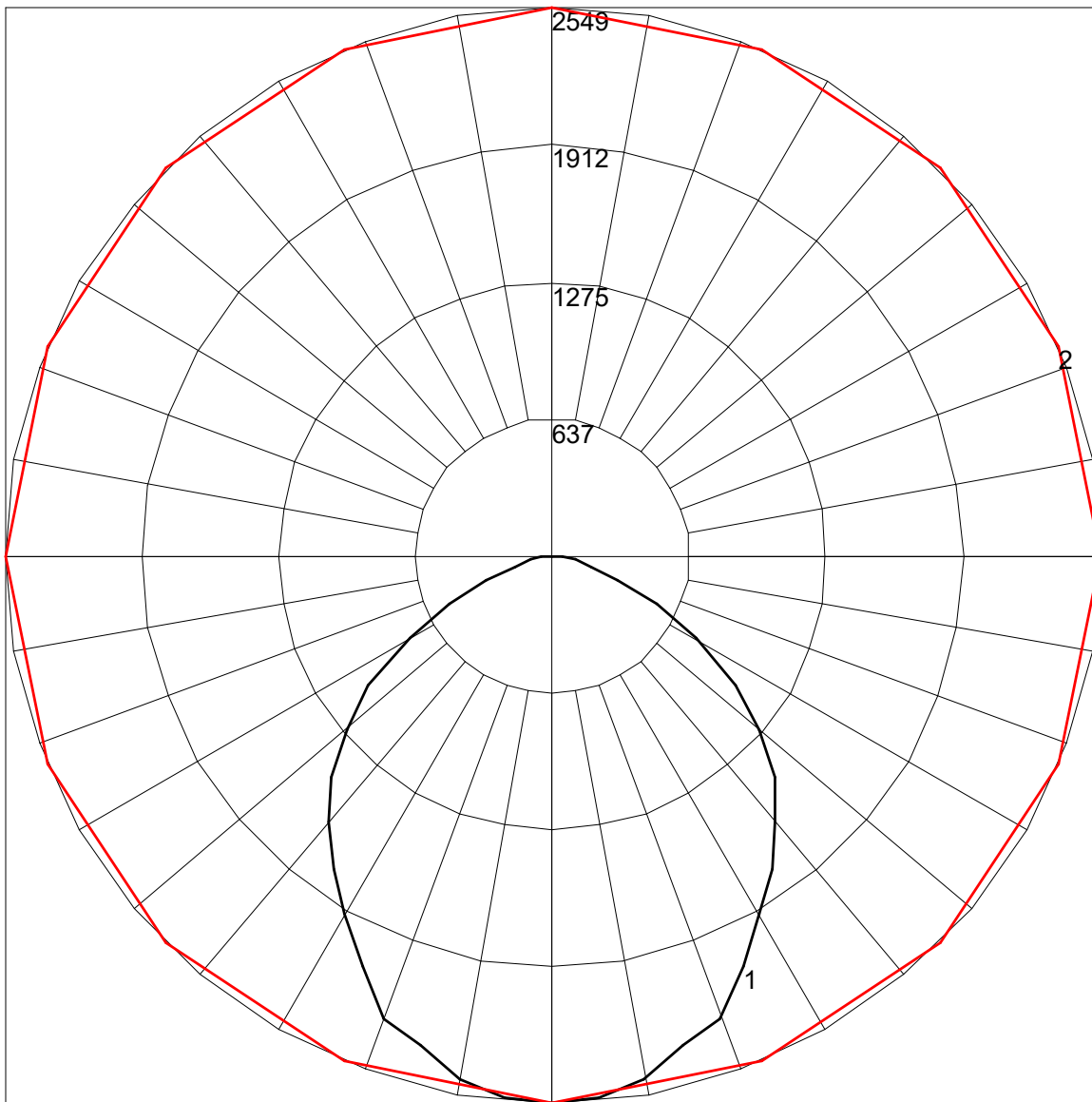
X=2H	Y=2H	16.0	17.6	16.4	17.9	18.2	16.2	17.8	16.6	18.1	18.4
	3H	17.6	19.0	18.0	19.3	19.7	17.2	18.6	17.6	18.9	19.3
	4H	18.1	19.4	18.5	19.7	20.1	17.4	18.7	17.8	19.1	19.5
	6H	18.4	19.6	18.8	20.0	20.4	17.6	18.8	18.0	19.2	19.5
	8H	18.5	19.7	18.9	20.1	20.5	17.6	18.8	18.0	19.2	19.6
	12H	18.6	19.7	19.0	20.1	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 = 2549.063 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.)