



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE 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] 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-P31-840-A-PoE ALL ON
 [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	9172
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	71.5
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	4411	4517	4495
55	3741	4027	3962
65	3124	3437	2737
75	2378	2165	1548
85	1815	1359	1200

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE ALL ON_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	3874.711	3874.711	3874.711	3874.711	3874.711
5	3858.288	3858.288	3855.456	3853.757	3853.757
10	3788.065	3783.535	3776.739	3768.244	3765.979
15	3632.329	3623.834	3607.411	3592.121	3588.157
20	3551.913	3543.984	3520.199	3493.016	3484.521
25	3281.782	3276.685	3251.767	3225.150	3204.763
30	3029.772	3021.278	2995.227	2960.682	2938.596
35	2782.860	2780.029	2762.473	2727.928	2716.602
40	2486.679	2492.342	2494.607	2470.256	2461.761
45	2178.038	2206.920	2230.139	2230.139	2219.379
50	1820.695	1854.107	1903.377	1925.463	1911.871
55	1498.463	1540.937	1612.858	1626.450	1586.808
60	1185.292	1232.296	1313.845	1226.633	1172.833
65	921.957	977.456	1014.266	885.147	807.562
70	671.080	733.375	695.998	552.721	494.957
75	429.831	470.039	391.322	304.676	279.758
80	254.841	260.504	203.873	168.195	162.532
85	110.431	97.972	82.682	74.187	73.054
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE ALL ON_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1390.89	N.A.	15.20
0-30	2890.36	N.A.	31.50
0-40	4610.31	N.A.	50.30
0-60	7715.26	N.A.	84.10
0-80	9067.84	N.A.	98.90
0-90	9172.26	N.A.	100.00
10-90	8806.81	N.A.	96.00
20-40	3219.42	N.A.	35.10
20-50	4918.77	N.A.	53.60
40-70	4032.52	N.A.	44.00
60-80	1352.58	N.A.	14.70
70-80	425.01	N.A.	4.60
80-90	104.42	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	9172.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	365.45
10-20	1025.45
20-30	1499.47
30-40	1719.95
40-50	1699.35
50-60	1405.59
60-70	927.58
70-80	425.01
80-90	104.42
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE ALL ON_.IES

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	100	100	100	100	98	98	98	98	93	93	93	89	89	89	86	86	86	84
1	92	88	85	82	90	87	84	81	83	81	78	80	78	76	77	75	74	72
2	84	78	73	68	82	76	71	67	73	69	66	71	67	64	68	65	63	61
3	77	69	63	57	75	68	62	57	65	60	56	63	59	55	61	57	54	52
4	71	62	55	49	69	60	54	49	58	53	48	56	52	48	55	50	47	45
5	66	55	48	43	64	54	48	42	53	47	42	51	46	42	49	45	41	39
6	61	50	43	38	59	49	42	37	48	42	37	46	41	37	45	40	36	35
7	56	45	38	33	55	45	38	33	44	37	33	42	37	33	41	36	33	31
8	53	42	35	30	51	41	34	30	40	34	30	39	33	29	38	33	29	28
9	49	38	32	27	48	38	31	27	37	31	27	36	31	27	35	30	27	25
10	46	35	29	25	45	35	29	25	34	28	24	33	28	24	33	28	24	23

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P31-840-A-POE ALL ON_.IES

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

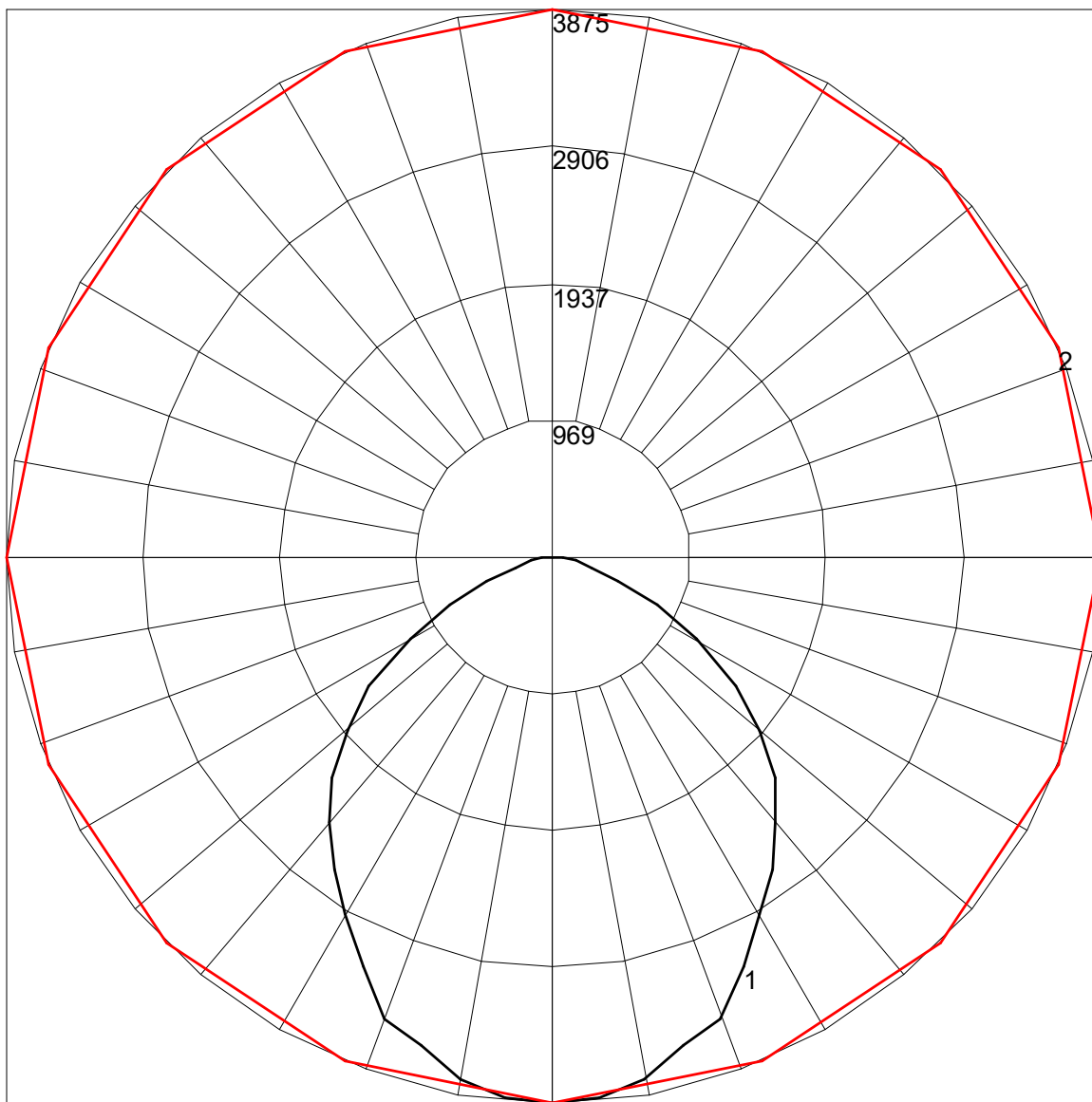
X=2H	Y=2H	17.0	18.6	17.4	18.9	19.2	17.2	18.8	17.6	19.1	19.4
	3H	18.6	20.0	19.0	20.3	20.7	18.2	19.6	18.6	19.9	20.3
	4H	19.1	20.4	19.5	20.7	21.1	18.4	19.7	18.8	20.1	20.5
	6H	19.4	20.6	19.8	21.0	21.4	18.6	19.8	19.0	20.2	20.5
	8H	19.5	20.7	19.9	21.1	21.5	18.6	19.8	19.0	20.2	20.6
	12H	19.6	20.7	20.0	21.1	21.5	18.6	19.7	19.1	20.1	20.6

UGR Viewed Endwise

4H	2H	17.7	19.0	18.1	19.3	19.7	17.8	19.1	18.2	19.5	19.9
	3H	19.4	20.5	19.8	20.9	21.3	19.0	20.1	19.4	20.5	20.9
	4H	20.0	21.0	20.5	21.4	21.9	19.3	20.2	19.7	20.7	21.1
	6H	20.5	21.3	20.9	21.8	22.2	19.5	20.3	19.9	20.8	21.2
	8H	20.6	21.4	21.1	21.8	22.3	19.5	20.3	20.0	20.8	21.2
	12H	20.7	21.4	21.2	21.9	22.4	19.6	20.3	20.0	20.8	21.2
8H	4H	20.2	21.0	20.6	21.4	21.9	19.5	20.3	19.9	20.7	21.2
	6H	20.7	21.4	21.2	21.9	22.3	19.8	20.4	20.2	20.9	21.4
	8H	20.9	21.5	21.4	22.0	22.5	19.8	20.4	20.4	20.9	21.4
	12H	21.1	21.6	21.6	22.1	22.6	20.0	20.5	20.5	21.0	21.5
12H	4H	20.1	20.9	20.6	21.3	21.8	19.5	20.2	20.0	20.7	21.2
	6H	20.7	21.3	21.2	21.8	22.3	19.8	20.4	20.3	20.8	21.4
	8H	21.0	21.5	21.5	22.0	22.5	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 22.6

POLAR GRAPH



Maximum Candela = 3874.711 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.)