



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-L76-835-A-DIM-UNV 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
 [ISSUE DATE] 6-JUN-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' RECESSED LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AEG-L76-835-A-DIM-UNV ALL ON
 [LAMPCAT] HLM 80 CRI, 3500K 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	18733
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	152.55
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	9009	9225	9180
55	7641	8225	8092
65	6381	7020	5589
75	4857	4422	3162
85	3706	2775	2452

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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	7913.334	7913.334	7913.334	7913.334	7913.334
5	7879.793	7879.793	7874.010	7870.540	7870.540
10	7736.377	7727.124	7713.245	7695.897	7691.270
15	7418.317	7400.968	7367.427	7336.200	7328.104
20	7254.082	7237.890	7189.314	7133.798	7116.449
25	6702.393	6691.983	6641.094	6586.734	6545.098
30	6187.714	6170.365	6117.162	6046.611	6001.504
35	5683.444	5677.661	5641.807	5571.255	5548.124
40	5078.552	5090.117	5094.744	5045.011	5027.662
45	4448.214	4507.200	4554.620	4554.620	4532.645
50	3718.411	3786.649	3887.272	3932.379	3904.621
55	3060.316	3147.060	3293.946	3321.703	3240.743
60	2420.726	2516.722	2683.270	2505.157	2395.281
65	1882.915	1996.261	2071.438	1807.738	1649.286
70	1370.550	1497.774	1421.439	1128.824	1010.853
75	877.846	959.963	799.198	622.241	571.352
80	520.462	532.028	416.370	343.505	331.939
85	225.533	200.089	168.861	151.512	149.199
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2840.63	N.A.	15.20
0-30	5902.99	N.A.	31.50
0-40	9415.66	N.A.	50.30
0-60	15756.89	N.A.	84.10
0-80	18519.28	N.A.	98.90
0-90	18732.53	N.A.	100.00
10-90	17986.17	N.A.	96.00
20-40	6575.03	N.A.	35.10
20-50	10045.62	N.A.	53.60
40-70	8235.63	N.A.	44.00
60-80	2762.39	N.A.	14.70
70-80	867.99	N.A.	4.60
80-90	213.25	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	18732.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	746.35
10-20	2094.27
20-30	3062.37
30-40	3512.66
40-50	3470.59
50-60	2870.65
60-70	1894.39
70-80	867.99
80-90	213.25
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	204	204	204	204	199	199	199	199	191	191	191	182	182	182	175	175	175	172
1	188	181	174	168	184	177	171	165	170	165	160	163	159	155	157	154	151	147
2	172	159	148	139	168	156	146	138	150	142	134	144	137	131	139	134	128	125
3	158	141	128	117	154	138	126	116	133	123	114	129	120	112	124	117	110	107
4	145	126	111	100	141	123	110	100	119	108	98	115	105	97	112	103	96	92
5	134	113	98	87	130	111	97	87	107	95	86	104	93	85	101	92	84	81
6	124	102	87	77	121	100	87	76	97	85	76	95	84	75	92	82	74	71
7	115	93	78	68	112	91	78	68	89	76	67	86	75	67	84	74	66	63
8	107	85	71	61	105	84	70	61	82	69	61	79	68	60	77	67	60	57
9	101	78	64	55	98	77	64	55	75	63	55	73	62	55	72	62	54	51
10	94	72	59	50	92	71	59	50	70	58	50	68	57	50	67	57	50	47

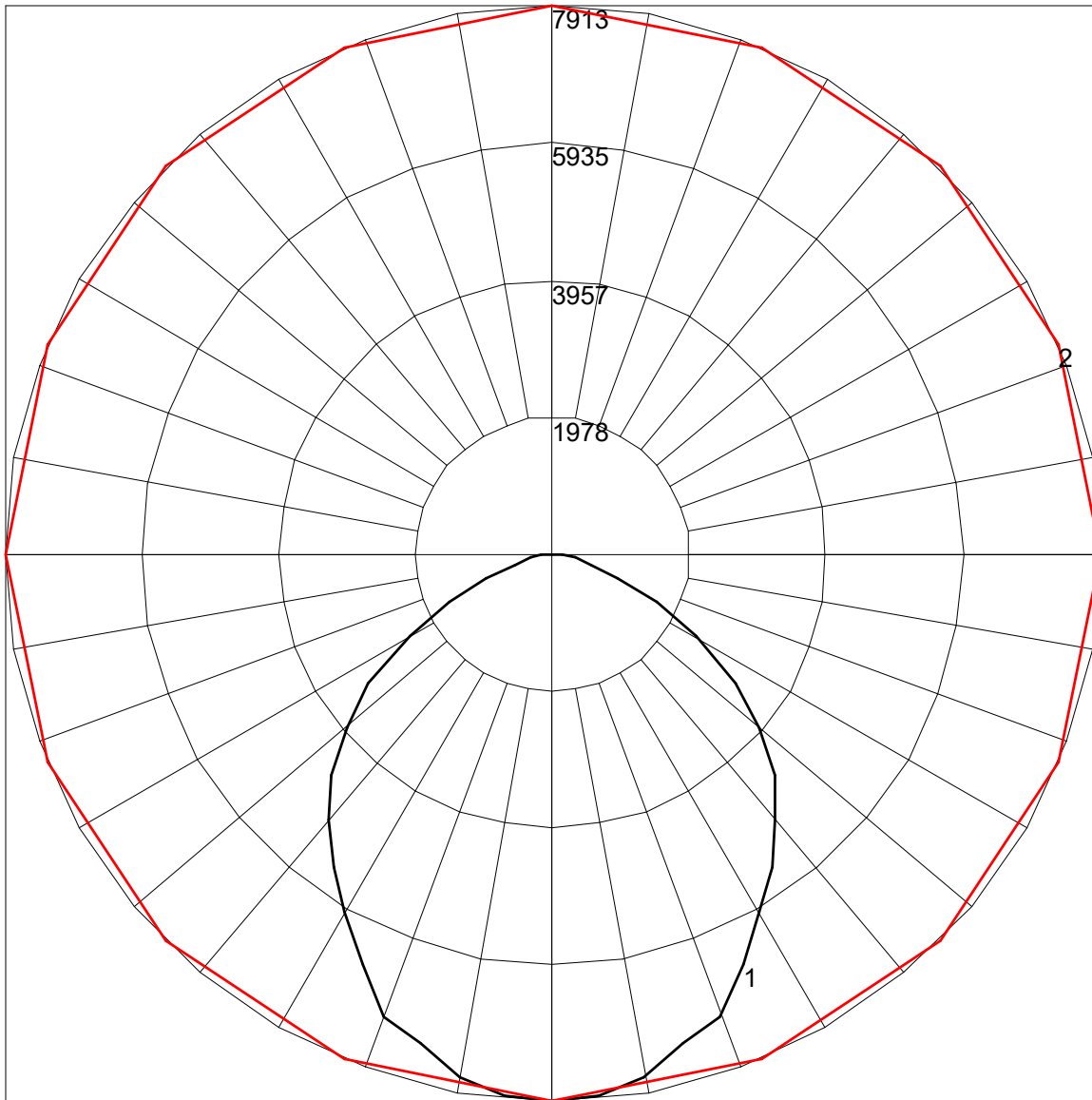
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UGR TABLE - CORRECTED

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	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
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 = 7913.334 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.)