



IES INDOOR REPORT

PHOTOMETRIC FILENAME : MD4AEG-4-L26-L52-840-A-DIM-UNV AMBIENT ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 20051.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIE, INC
 [ISSUEDATE] 24-JUN-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-84 LED(EXAM) & 2-56 LED(AMBIENT) 4' MEDICAL ASYM TROFFER
 [MORE] WHITE REFL w/FROSTED ACRYLIC RIBBED LENS IN DOOR & CLEAR
 [MORE] ACRYLIC LENS
 [LUMCAT] MD4AEG-L26-L52-840-A AMBIENT ONLY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2645
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	26.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.02
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.20
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.44 ft
Luminous Width (90-270)	3.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4830	6331	7012
55	3817	5037	5352
65	2154	3489	3810
75	814	1424	2267
85	0	173	518

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	1372.765	1372.765	1372.765	1372.765	1372.765	1372.765	1372.765	1372.765	1372.765
5	1349.654	1363.521	1373.920	1392.409	1393.564	1372.765	1364.676	1358.899	1353.121
10	1306.900	1333.477	1350.810	1378.543	1380.854	1356.588	1333.477	1319.611	1310.367
15	1239.879	1275.701	1309.211	1347.343	1350.810	1321.922	1283.789	1261.834	1253.746
20	1132.416	1176.326	1239.879	1286.100	1294.189	1258.368	1216.769	1176.326	1161.304
25	1012.241	1049.218	1156.682	1212.147	1220.236	1179.792	1122.016	1058.462	1034.196
30	883.977	917.488	1052.684	1122.016	1141.660	1085.039	993.752	922.110	895.533
35	749.936	795.002	941.754	1015.707	1031.885	966.020	855.089	762.647	740.692
40	636.695	678.294	818.112	902.466	902.466	833.134	709.493	613.584	593.940
45	524.609	569.674	687.538	785.758	761.492	697.938	563.897	487.632	462.210
50	428.700	466.833	553.497	662.116	613.584	559.275	424.078	369.768	345.502
55	336.258	369.768	443.722	532.698	471.455	428.700	299.281	256.527	243.816
60	231.105	266.927	340.880	411.367	351.280	306.214	202.217	159.463	149.063
65	139.819	175.640	226.483	279.637	247.283	197.595	124.797	84.353	75.109
70	75.109	100.531	121.330	177.951	161.774	106.308	54.310	32.355	27.733
75	32.355	47.377	56.621	83.198	90.131	36.977	17.333	15.022	13.866
80	12.711	16.177	17.333	18.488	33.510	6.933	4.622	5.778	4.622
85	0.000	1.156	2.311	4.622	6.933	1.156	1.156	1.156	1.156
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	494.90	N.A.	18.70
0-30	1012.82	N.A.	38.30
0-40	1568.31	N.A.	59.30
0-60	2402.6	N.A.	90.80
0-80	2639.87	N.A.	99.80
0-90	2644.96	N.A.	100.00
10-90	2514.97	N.A.	95.10
20-40	1073.41	N.A.	40.60
20-50	1560.22	N.A.	59.00
40-70	1017.05	N.A.	38.50
60-80	237.28	N.A.	9.00
70-80	54.51	N.A.	2.10
80-90	5.09	N.A.	0.20
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	2644.96	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.99
10-20	364.91
20-30	517.92
30-40	555.49
40-50	486.81
50-60	347.48
60-70	182.76
70-80	54.51
80-90	5.09
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	136	136	136	136	133	133	133	133	127	127	127	122	122	122	117	117	117	114
1	127	123	119	115	124	120	117	114	115	113	110	111	109	107	107	105	104	101
2	118	110	103	98	115	108	102	97	104	99	95	100	96	93	97	94	91	88
3	109	98	91	84	106	97	89	84	93	87	82	90	85	81	88	83	79	77
4	101	89	80	73	98	87	79	73	85	77	72	82	76	71	80	74	70	68
5	93	80	71	65	91	79	71	64	77	69	64	75	68	63	73	67	62	60
6	87	73	64	57	85	72	63	57	70	62	57	68	61	56	67	61	56	54
7	81	67	58	52	79	66	57	51	64	57	51	63	56	51	61	55	50	48
8	76	62	53	47	74	61	52	46	59	52	46	58	51	46	57	50	46	44
9	71	57	48	42	69	56	48	42	55	47	42	54	47	42	53	46	42	40
10	67	53	44	39	65	52	44	39	51	44	39	50	43	38	49	43	38	36

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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	15.4	16.8	15.7	17.1	17.4	17.4	18.9	17.8	19.2	19.5
	3H	16.0	17.2	16.4	17.6	17.9	18.4	19.6	18.8	20.0	20.3
	4H	16.0	17.2	16.4	17.6	18.0	18.6	19.8	19.0	20.1	20.5
	6H	16.0	17.1	16.4	17.5	17.9	18.6	19.7	19.0	20.1	20.5
	8H	16.0	17.0	16.4	17.4	17.8	18.6	19.6	19.0	20.0	20.4
	12H	15.9	16.9	16.4	17.3	17.7	18.6	19.6	19.0	20.0	20.4

UGR Viewed Endwise

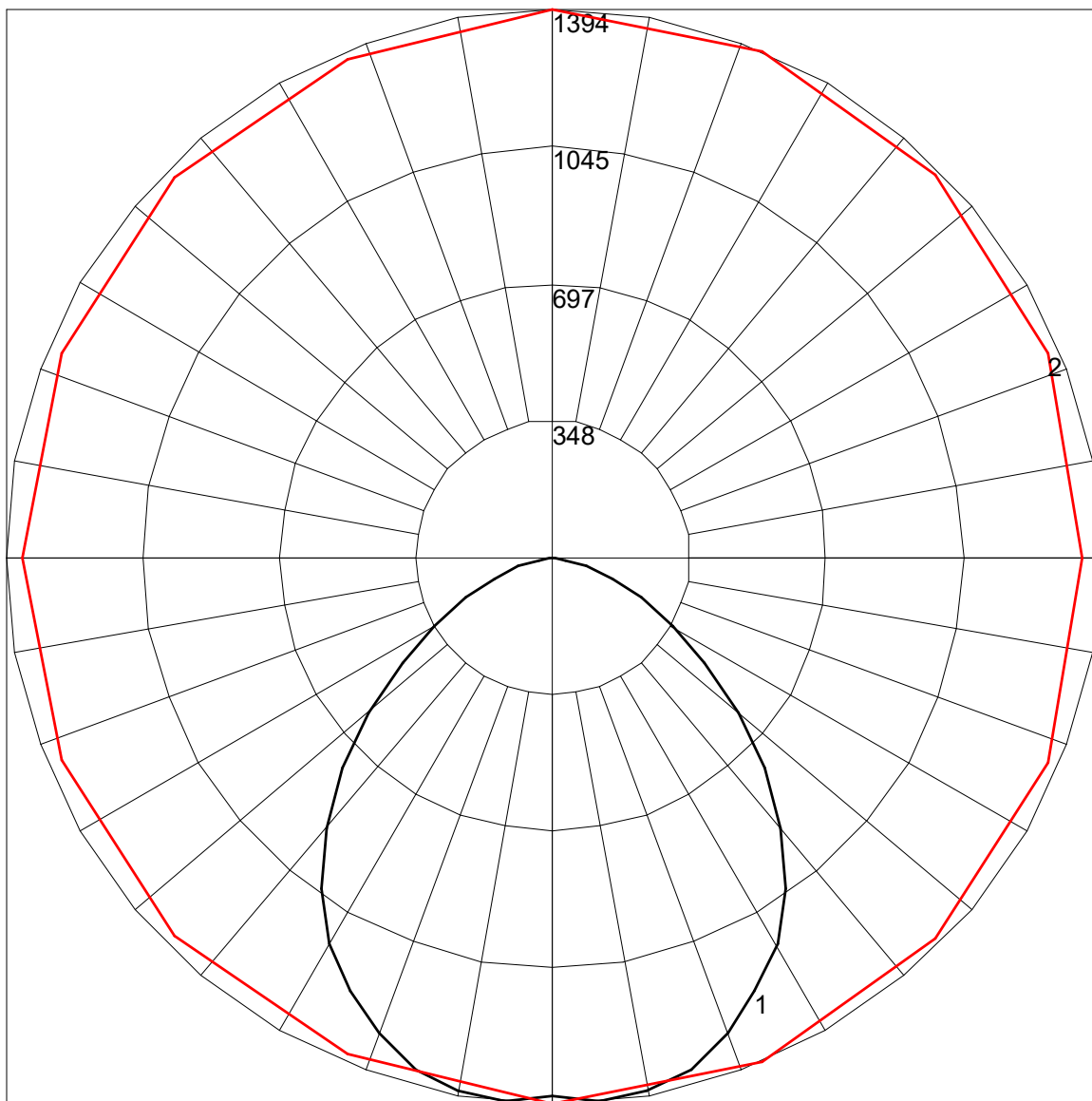
4H	2H	16.0	17.2	16.4	17.5	17.9	17.6	18.8	18.0	19.1	19.5
	3H	16.7	17.7	17.1	18.1	18.5	18.6	19.6	19.0	20.0	20.4
	4H	16.8	17.7	17.2	18.1	18.5	18.8	19.7	19.3	20.1	20.6
	6H	16.8	17.6	17.3	18.0	18.5	18.9	19.7	19.4	20.1	20.6
	8H	16.8	17.5	17.2	17.9	18.4	18.9	19.6	19.4	20.0	20.5
	12H	16.7	17.4	17.2	17.8	18.3	18.9	19.5	19.4	20.0	20.4
8H	4H	16.9	17.6	17.3	18.0	18.5	18.8	19.5	19.2	19.9	20.4
	6H	16.9	17.5	17.4	18.0	18.4	18.8	19.4	19.3	19.9	20.4
	8H	16.9	17.4	17.4	17.9	18.4	18.8	19.3	19.3	19.8	20.3
	12H	16.8	17.3	17.3	17.8	18.3	18.8	19.2	19.3	19.7	20.3
12H	4H	16.9	17.5	17.3	18.0	18.4	18.7	19.4	19.2	19.8	20.3
	6H	16.9	17.4	17.4	17.8	18.4	18.8	19.3	19.3	19.8	20.3
	8H	16.8	17.3	17.4	17.8	18.4	18.8	19.2	19.3	19.7	20.3

Maximum UGR = 20.6

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POLAR GRAPH



Maximum Candela = 1393.564 Located At Horizontal Angle = 90, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)