



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AT3-14-L40-8TW-D-DALI-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19434.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 3-JAN-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-42 LED 22" ARRAYS 1x4' RECESSED LUMINAIRE

[MORE] WHITE REFLECTOR w/2 PIECE FROSTED ACRYLIC LENS IN DOOR

[LUMCAT] AT3-14-L40-8TW-D-DALI-UNV 4000k

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3727
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	43.59
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.76 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4824	4658	4615
55	4103	4005	3850
65	3646	3533	2610
75	2897	2068	1892
85	2387	1641	1218

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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	1699.348	1699.348	1699.348	1699.348	1699.348
5	1681.239	1678.902	1676.566	1673.645	1672.476
10	1661.377	1654.951	1644.436	1636.258	1633.921
15	1591.861	1585.435	1569.663	1557.395	1550.385
20	1517.087	1502.483	1477.364	1455.165	1446.403
25	1359.946	1344.758	1319.638	1298.608	1292.766
30	1250.706	1231.429	1202.804	1185.863	1180.606
35	1132.704	1114.595	1089.476	1076.624	1072.535
40	1009.444	991.919	972.058	965.048	960.958
45	919.482	900.205	887.937	881.511	879.759
50	770.519	756.499	748.321	743.063	739.558
55	634.408	622.724	619.219	608.704	595.268
60	509.980	502.386	500.049	470.840	442.800
65	415.344	410.671	402.493	330.640	297.342
70	304.352	303.184	264.629	199.786	194.528
75	202.123	204.459	144.290	134.943	132.022
80	123.844	108.655	89.962	85.289	82.368
85	56.080	43.813	38.555	30.961	28.624
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	601.39	N.A.	16.10
0-30	1215.56	N.A.	32.60
0-40	1901.04	N.A.	51.00
0-60	3131.84	N.A.	84.00
0-80	3679.25	N.A.	98.70
0-90	3726.78	N.A.	100.00
10-90	3567.57	N.A.	95.70
20-40	1299.65	N.A.	34.90
20-50	1978.06	N.A.	53.10
40-70	1599.81	N.A.	42.90
60-80	547.41	N.A.	14.70
70-80	178.40	N.A.	4.80
80-90	47.52	N.A.	1.30
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	3726.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	159.21
10-20	442.18
20-30	614.16
30-40	685.49
40-50	678.41
50-60	552.39
60-70	369.01
70-80	178.40
80-90	47.52
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	234	234	234	234	229	229	229	229	218	218	218	209	209	209	201	201	201	197
1	216	207	199	192	210	203	196	189	194	189	183	187	182	178	180	176	172	168
2	198	183	170	160	193	179	168	158	172	162	154	166	158	151	160	153	147	143
3	181	162	147	135	177	159	145	134	153	141	131	148	138	129	143	134	127	123
4	167	145	128	116	162	142	127	115	137	124	114	133	121	112	129	119	111	106
5	154	130	113	101	150	128	112	100	124	110	99	120	108	98	116	106	97	93
6	143	118	101	89	139	116	100	89	112	98	88	109	97	87	106	95	86	82
7	133	107	91	79	129	106	90	79	103	89	78	100	87	78	97	86	77	74
8	124	98	82	71	121	97	82	71	94	81	71	92	79	70	90	78	70	66
9	116	91	75	65	113	89	75	64	87	74	64	85	73	64	83	72	63	60
10	109	84	69	59	107	83	68	59	81	68	59	79	67	58	77	66	58	55

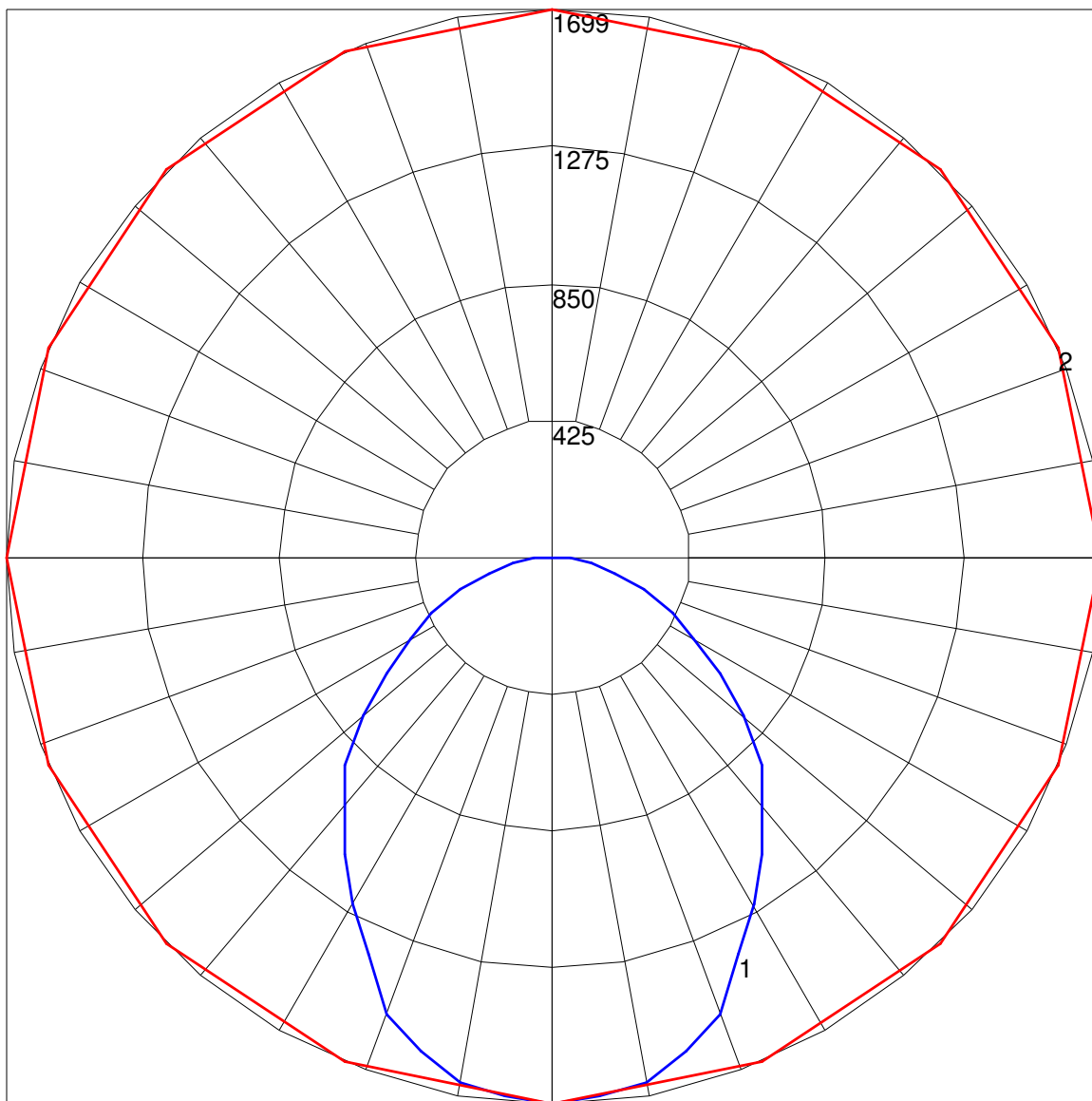
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UGR TABLE - CORRECTED

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	14.3	15.9	14.7	16.2	16.5	14.0	15.5	14.3	15.8	16.1
	3H	16.0	17.4	16.4	17.7	18.1	14.9	16.3	15.3	16.6	17.0
	4H	16.6	17.9	17.0	18.2	18.6	15.2	16.5	15.6	16.9	17.3
	6H	17.0	18.2	17.4	18.6	19.0	15.5	16.7	15.9	17.1	17.5
	8H	17.1	18.3	17.6	18.7	19.1	15.6	16.7	16.0	17.1	17.5
	12H	17.2	18.3	17.7	18.7	19.2	15.6	16.7	16.0	17.1	17.5
4H	2H	14.9	16.2	15.3	16.6	16.9	14.6	15.9	15.0	16.3	16.6
	3H	16.7	17.8	17.2	18.2	18.6	15.7	16.8	16.1	17.2	17.6
	4H	17.5	18.4	17.9	18.8	19.3	16.1	17.1	16.5	17.5	17.9
	6H	18.0	18.8	18.4	19.3	19.7	16.5	17.3	16.9	17.8	18.2
	8H	18.2	18.9	18.6	19.4	19.9	16.6	17.4	17.1	17.8	18.3
	12H	18.3	19.0	18.8	19.5	19.9	16.7	17.4	17.1	17.8	18.3
8H	4H	17.6	18.4	18.0	18.8	19.3	16.4	17.1	16.8	17.6	18.1
	6H	18.2	18.8	18.7	19.3	19.8	16.8	17.5	17.3	18.0	18.4
	8H	18.4	19.0	18.9	19.5	20.0	17.0	17.6	17.5	18.1	18.6
	12H	18.6	19.1	19.1	19.6	20.2	17.1	17.6	17.6	18.1	18.7
12H	4H	17.6	18.3	18.1	18.8	19.2	16.4	17.1	16.9	17.6	18.0
	6H	18.2	18.8	18.7	19.3	19.8	16.9	17.5	17.4	17.9	18.5
	8H	18.5	19.0	19.0	19.5	20.1	17.1	17.6	17.6	18.1	18.6

Maximum UGR = 20.2

POLAR GRAPH



Maximum Candela = 1699.348 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)