

## Photometric Test Report

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : L052411809.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L052411809  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUE DATE] 5/31/2024  
 [MANUFAC] Bartco Lighting, Inc.  
 [LUMCAT] BSW501-50-35-ND-R-L-XX-XX-SN-AW  
 [LUMINAIRE] Fathom 1-3/8" Arm Mount LED Luminaire for Outdoor Locations,  
 [MORE] 50" Nom. O.A., 3500K, 120-277V Non-Dimming Driver, Reg.Output,  
 [MORE] Lambertian Optic, Single Config., Architectural White Finish  
 [BALLASTCAT] AMPEROR ANP101-24P1-277-2500L-1-P  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [INPUT] 120VAC  
 [TEST PROCEDURE] IESNA:LM-79-19

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2418
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	22.72
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.08
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Hor. Cylinder Along Length
Luminous Length (0-180)	4.10 ft
Luminous Width (90-270)	0.15 ft (Diameter)
Luminous Height	0.15 ft (Diameter)

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	431165	11924	7956
55	270413	8480	5683
65	155777	5784	3987
75	74341	3633	2728
85	21380	2164	1854

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	351.45	N.A.	14.50
0-30	719.37	N.A.	29.80
0-40	1124.41	N.A.	46.50
0-60	1816.16	N.A.	75.10
0-80	2207.92	N.A.	91.30
0-90	2300.18	N.A.	95.10
10-90	2206.99	N.A.	91.30
20-40	772.96	N.A.	32.00
20-50	1150.62	N.A.	47.60
40-70	927.45	N.A.	38.40
60-80	391.76	N.A.	16.20
70-80	156.06	N.A.	6.50
80-90	92.27	N.A.	3.80
90-110	85.39	N.A.	3.50
90-120	105.05	N.A.	4.30
90-130	114.86	N.A.	4.80
90-150	117.87	N.A.	4.90
90-180	117.87	N.A.	4.90
110-180	32.48	N.A.	1.30
0-180	2418.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	93.19
10-20	258.26
20-30	367.93
30-40	405.04
40-50	377.65
50-60	314.09
60-70	235.70
70-80	156.06
80-90	92.27
90-100	53.52
100-110	31.86
110-120	19.66
120-130	9.81
130-140	3.00
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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	55	49	45	43
6	70	57	49	43	68	56	48	42	54	47	41	52	46	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	43	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

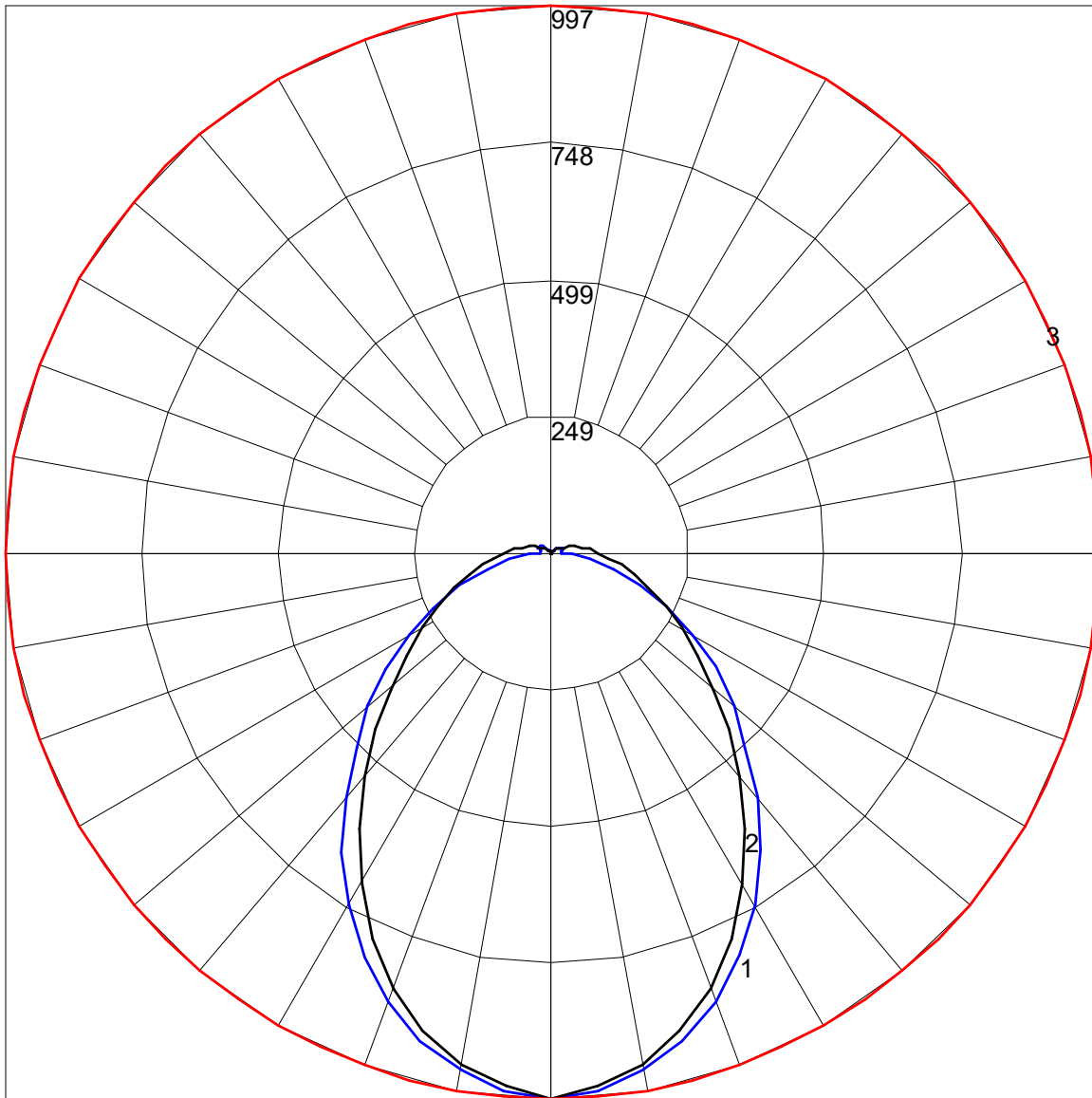
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**UGR TABLE - CORRECTED**

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	16.4	17.9	16.9	18.3	18.8	17.6	19.1	18.1	19.5	20.0
	3H	17.6	19.0	18.1	19.4	19.9	19.6	20.9	20.1	21.4	21.8
	4H	18.0	19.2	18.5	19.7	20.2	20.5	21.8	21.0	22.2	22.7
	6H	18.2	19.4	18.7	19.8	20.3	21.5	22.7	22.0	23.1	23.6
	8H	18.2	19.4	18.7	19.8	20.4	22.0	23.1	22.5	23.6	24.1
	12H	18.2	19.3	18.8	19.8	20.4	22.5	23.6	23.1	24.1	24.7
4H	2H	17.0	18.3	17.5	18.7	19.2	18.0	19.3	18.5	19.7	20.2
	3H	18.5	19.5	18.9	20.0	20.5	20.1	21.2	20.6	21.7	22.2
	4H	18.9	19.9	19.4	20.4	20.9	21.2	22.1	21.7	22.7	23.2
	6H	19.2	20.1	19.8	20.6	21.2	22.3	23.1	22.8	23.7	24.3
	8H	19.3	20.1	19.9	20.6	21.2	22.9	23.7	23.4	24.2	24.8
	12H	19.4	20.1	19.9	20.6	21.2	23.5	24.3	24.1	24.8	25.4
8H	4H	19.3	20.1	19.8	20.6	21.2	21.3	22.1	21.9	22.7	23.2
	6H	19.8	20.4	20.3	21.0	21.6	22.6	23.2	23.1	23.8	24.4
	8H	19.9	20.5	20.5	21.1	21.7	23.2	23.9	23.8	24.4	25.0
	12H	20.0	20.6	20.6	21.1	21.8	24.0	24.6	24.6	25.1	25.8
12H	4H	19.4	20.1	20.0	20.7	21.3	21.3	22.1	21.9	22.6	23.2
	6H	19.9	20.5	20.5	21.1	21.7	22.6	23.2	23.2	23.8	24.4
	8H	20.1	20.7	20.7	21.2	21.9	23.3	23.9	23.9	24.4	25.1

Maximum UGR = 25.8

POLAR GRAPH



Maximum Candela = 997 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)