

## Photometric Test Report

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : L052411804.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L052411804  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUE DATE] 5/30/2024  
 [MANUFAC] Bartco Lighting, Inc.  
 [LUMCAT] BSW225-4-35-RN-R-SM-SN-AW  
 [LUMINAIRE] Fathom 2-1/8" Wide Flush Lens LED Luminaire for Outdoor Locations,  
 [MORE] 48-5/8" Nom. O.A., 3500K, 120-277V Non-Dimming Driver, Reg.Output,  
 [MORE] Surface Mount, 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	2096
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	22.94
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.04 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10629	10651	10496
55	10073	9882	9746
65	9262	9040	8892
75	8046	7804	7804
85	5569	5030	5030

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	292.55	N.A.	14.00
0-30	610.53	N.A.	29.10
0-40	980.98	N.A.	46.80
0-60	1676.83	N.A.	80.00
0-80	2059.09	N.A.	98.20
0-90	2096.46	N.A.	100.00
10-90	2019.66	N.A.	96.30
20-40	688.43	N.A.	32.80
20-50	1059.11	N.A.	50.50
40-70	938.96	N.A.	44.80
60-80	382.26	N.A.	18.20
70-80	139.15	N.A.	6.60
80-90	37.37	N.A.	1.80
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	2096.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.79
10-20	215.75
20-30	317.98
30-40	370.45
40-50	370.68
50-60	325.18
60-70	243.11
70-80	139.15
80-90	37.37
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70	
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60	
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44	
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39	
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35	
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31	
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28	
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25	

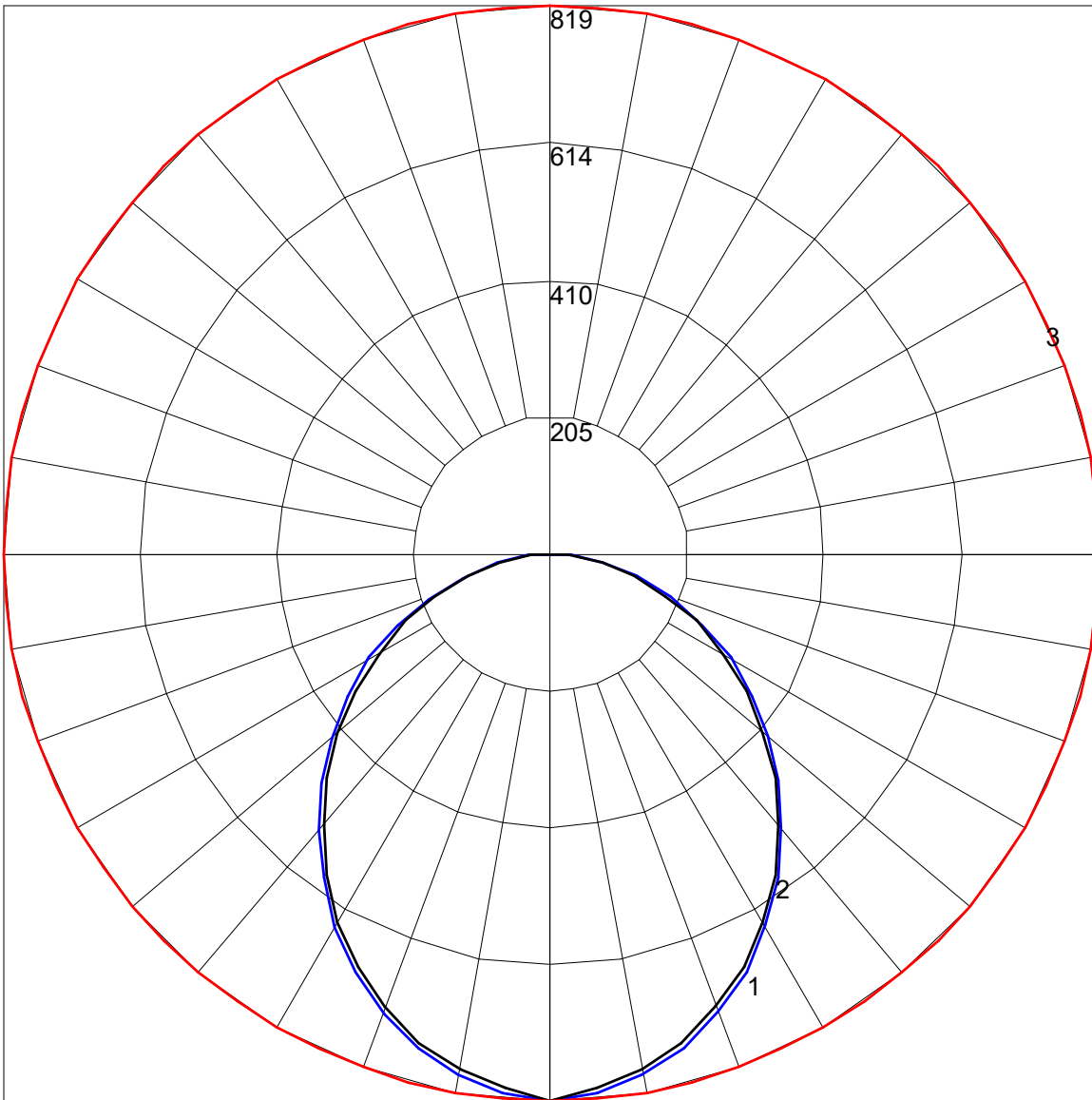
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**UGR TABLE - CORRECTED**

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	20.1	21.7	20.5	22.0	22.3	19.9	21.5	20.3	21.8	22.1
	3H	21.9	23.3	22.3	23.7	24.0	21.6	23.1	22.0	23.4	23.8
	4H	22.5	23.9	22.9	24.2	24.6	22.3	23.6	22.7	24.0	24.4
	6H	23.0	24.3	23.4	24.6	25.0	22.7	24.0	23.2	24.4	24.8
	8H	23.2	24.4	23.6	24.8	25.2	22.9	24.1	23.3	24.5	24.9
	12H	23.2	24.4	23.7	24.8	25.2	23.0	24.1	23.4	24.5	24.9
4H	2H	20.7	22.1	21.1	22.4	22.8	20.5	21.9	20.9	22.3	22.6
	3H	22.7	23.8	23.1	24.2	24.6	22.5	23.6	22.9	24.0	24.4
	4H	23.5	24.5	23.9	24.9	25.4	23.3	24.3	23.7	24.7	25.1
	6H	24.1	25.0	24.5	25.4	25.9	23.9	24.8	24.3	25.2	25.7
	8H	24.3	25.1	24.7	25.6	26.0	24.0	24.9	24.5	25.3	25.8
	12H	24.4	25.2	24.9	25.6	26.1	24.2	24.9	24.6	25.4	25.9
8H	4H	23.8	24.6	24.2	25.1	25.5	23.6	24.4	24.0	24.9	25.3
	6H	24.5	25.2	25.0	25.7	26.2	24.3	25.0	24.8	25.5	26.0
	8H	24.7	25.4	25.3	25.9	26.4	24.5	25.2	25.1	25.7	26.2
	12H	24.9	25.5	25.5	26.0	26.6	24.7	25.3	25.2	25.8	26.3
12H	4H	23.8	24.6	24.3	25.0	25.5	23.6	24.4	24.1	24.9	25.3
	6H	24.5	25.2	25.1	25.6	26.2	24.4	25.0	24.9	25.5	26.0
	8H	24.9	25.4	25.4	25.9	26.5	24.7	25.2	25.2	25.7	26.3

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 819 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.)