

Photometric Test Report

IES INDOOR REPORT**PHOTOMETRIC FILENAME : L052411803.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] L052411803
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 5/30/2024
[MANUFAC] Bartco Lighting, Inc.
[LUMCAT] BSW215-4-35-IN-R-SM-SN-AW
[LUMINAIRE] Fathom 3-1/8" Wide Drop 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	2863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	22.77
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.17 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5937	4892	5042
55	5391	4379	4718
65	4827	3934	4234
75	3981	3331	3523
85	3571	2778	2813

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	304.91	N.A.	10.70
0-30	626.48	N.A.	21.90
0-40	994.23	N.A.	34.70
0-60	1732.72	N.A.	60.50
0-80	2284.33	N.A.	79.80
0-90	2441.88	N.A.	85.30
10-90	2361.13	N.A.	82.50
20-40	689.31	N.A.	24.10
20-50	1066.18	N.A.	37.20
40-70	1053.53	N.A.	36.80
60-80	551.61	N.A.	19.30
70-80	236.57	N.A.	8.30
80-90	157.55	N.A.	5.50
90-110	213.09	N.A.	7.40
90-120	290.68	N.A.	10.20
90-130	346.35	N.A.	12.10
90-150	402.77	N.A.	14.10
90-180	420.94	N.A.	14.70
110-180	207.85	N.A.	7.30
0-180	2862.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.75
10-20	224.17
20-30	321.57
30-40	367.74
40-50	376.86
50-60	361.63
60-70	315.04
70-80	236.57
80-90	157.55
90-100	116.04
100-110	97.06
110-120	77.59
120-130	55.66
130-140	34.91
140-150	21.51
150-160	11.96
160-170	5.09
170-180	1.12

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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	116	116	116	116	111	111	111	111	103	103	103	95	95	95	89	89	89	85
1	104	98	93	89	99	94	90	86	87	84	80	81	78	75	75	73	71	67
2	94	85	77	71	89	81	75	69	75	70	65	70	65	62	65	61	58	55
3	85	74	65	59	81	71	63	57	66	60	54	61	56	51	57	53	49	46
4	78	65	56	49	74	63	55	48	59	52	46	55	49	44	51	46	42	39
5	71	58	49	42	68	56	48	41	52	45	40	49	43	38	46	40	36	34
6	66	52	43	37	63	51	42	36	47	40	35	44	38	33	41	36	32	29
7	61	47	39	32	58	46	38	32	43	36	31	40	34	29	38	32	28	26
8	57	43	35	29	54	42	34	28	39	32	27	37	31	26	35	29	25	23
9	53	40	32	26	51	39	31	26	36	29	25	34	28	24	32	27	23	21
10	50	37	29	24	48	36	28	23	34	27	22	32	26	22	30	25	21	19

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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	14.2	15.5	14.8	16.1	16.8	18.1	19.5	18.7	20.1	20.7
	3H	15.6	16.8	16.2	17.4	18.1	20.7	21.9	21.3	22.5	23.2
	4H	16.0	17.2	16.6	17.8	18.5	21.9	23.0	22.5	23.7	24.4
	6H	16.3	17.4	16.9	18.0	18.8	23.0	24.1	23.7	24.8	25.5
	8H	16.4	17.4	17.0	18.1	18.8	23.6	24.7	24.2	25.3	26.0
	12H	16.4	17.4	17.1	18.1	18.8	24.2	25.2	24.8	25.9	26.6

UGR Viewed Endwise

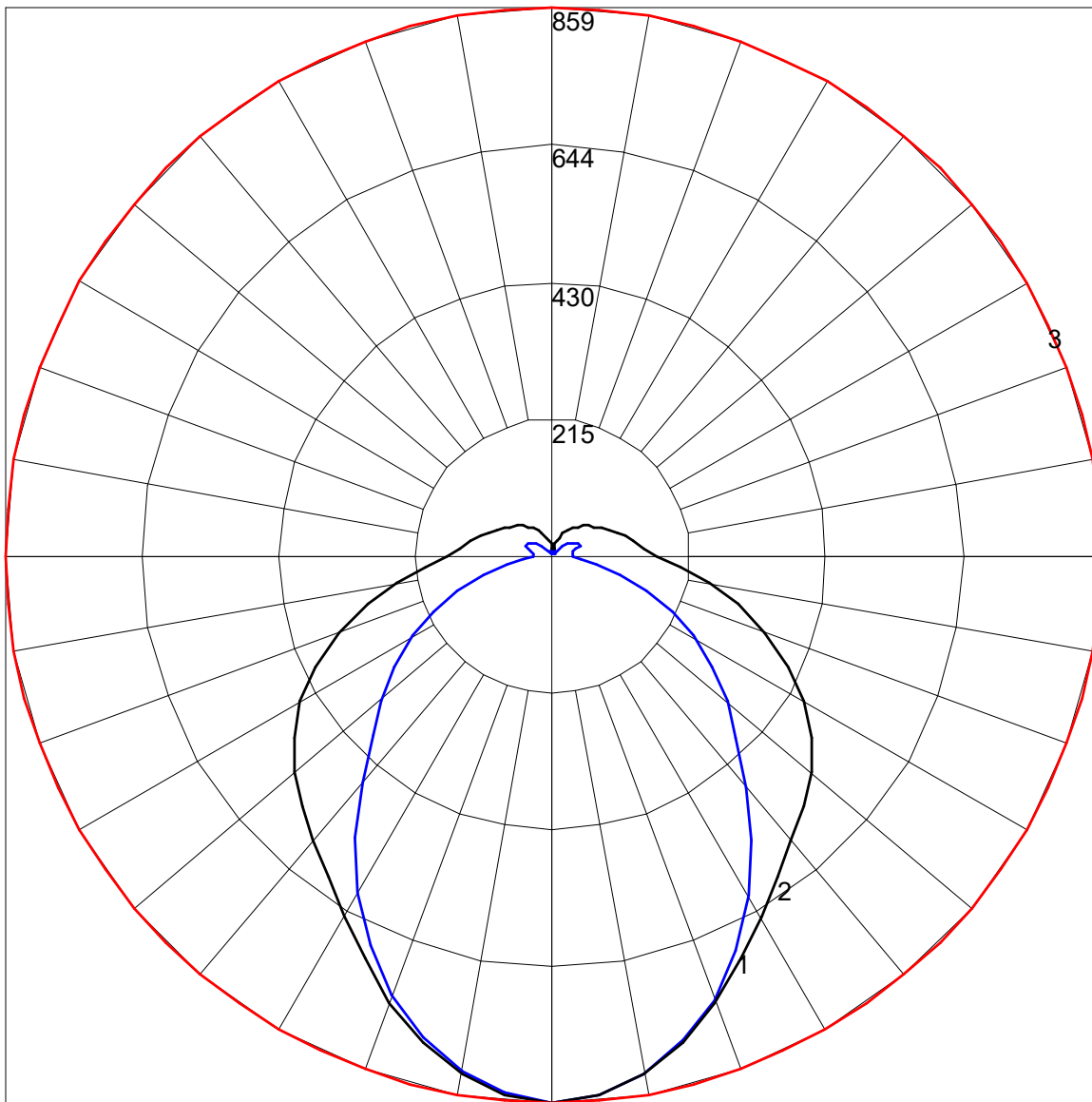
4H	2H	15.4	16.5	16.0	17.2	17.9	18.4	19.6	19.0	20.2	20.9
	3H	17.0	18.0	17.6	18.7	19.4	21.2	22.2	21.8	22.8	23.6
	4H	17.6	18.5	18.2	19.2	19.9	22.5	23.4	23.2	24.1	24.9
	6H	18.0	18.8	18.7	19.5	20.3	23.9	24.7	24.5	25.4	26.1
	8H	18.1	18.9	18.8	19.6	20.3	24.6	25.3	25.2	26.0	26.8
	12H	18.2	18.9	18.9	19.6	20.4	25.3	26.0	26.0	26.7	27.5

8H	4H	18.5	19.2	19.1	19.9	20.7	22.7	23.4	23.3	24.1	24.9
	6H	19.1	19.7	19.8	20.4	21.2	24.2	24.8	24.9	25.5	26.3
	8H	19.3	19.9	20.0	20.6	21.4	24.9	25.5	25.7	26.3	27.1
	12H	19.5	20.0	20.2	20.7	21.6	25.8	26.4	26.5	27.1	27.9

12H	4H	18.7	19.4	19.4	20.1	20.9	22.7	23.3	23.3	24.1	24.8
	6H	19.4	20.0	20.1	20.7	21.5	24.2	24.8	24.9	25.5	26.3
	8H	19.7	20.3	20.4	21.0	21.8	25.0	25.6	25.7	26.3	27.1

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 859 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.)