



8165 E. Kaiser Blvd. Anaheim, CA 92808
www.lightlaboratory.com

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L052411808.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L052411808
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 5/31/2024
[MANUFAC] Bartco Lighting, Inc.
[LUMCAT] BSW501-50-35-ND-R-A-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] Asymmetric 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	2527
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	22.67
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Hor. Cylinder Along Width
Luminous Length (0-180)	0.15 ft (Diameter)
Luminous Width (90-270)	4.10 ft
Luminous Height	0.15 ft (Diameter)

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9355	22152	334777
55	4914	11404	226582
65	4686	6772	139662
75	4879	5173	69301
85	2413	2861	18326

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	284.11	N.A.	11.20
0-30	686.80	N.A.	27.20
0-40	1159.64	N.A.	45.90
0-60	1882.11	N.A.	74.50
0-80	2292.09	N.A.	90.70
0-90	2392.6	N.A.	94.70
10-90	2323.23	N.A.	91.90
20-40	875.53	N.A.	34.60
20-50	1281.85	N.A.	50.70
40-70	958.82	N.A.	37.90
60-80	409.98	N.A.	16.20
70-80	173.63	N.A.	6.90
80-90	100.51	N.A.	4.00
90-110	97.86	N.A.	3.90
90-120	120.45	N.A.	4.80
90-130	131.18	N.A.	5.20
90-150	134.49	N.A.	5.30
90-180	134.49	N.A.	5.30
110-180	36.63	N.A.	1.40
0-180	2527.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.37
10-20	214.74
20-30	402.69
30-40	472.84
40-50	406.32
50-60	316.15
60-70	236.35
70-80	173.63
80-90	100.51
90-100	60.05
100-110	37.81
110-120	22.59
120-130	10.73
130-140	3.31
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	114	114	114	114	108	108	108	102	102	102	97	97	97	95
1	107	102	97	93	104	99	95	91	94	91	88	89	86	84	85	82	80	78
2	97	89	82	76	94	87	80	75	82	77	73	78	74	70	74	71	68	65
3	89	79	70	64	86	77	69	63	73	66	61	69	64	59	66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	52	62	56	51	59	54	50	48
5	75	63	54	47	73	61	53	47	58	51	46	56	50	45	54	48	44	41
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	49	43	39	36
7	65	51	43	37	63	50	42	36	48	41	36	46	40	35	44	39	34	32
8	60	47	38	33	58	46	38	32	44	37	32	42	36	31	41	35	31	29
9	56	43	35	29	54	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	40	32	26	51	39	31	26	37	31	26	36	30	26	35	29	25	23

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UGR TABLE - CORRECTED

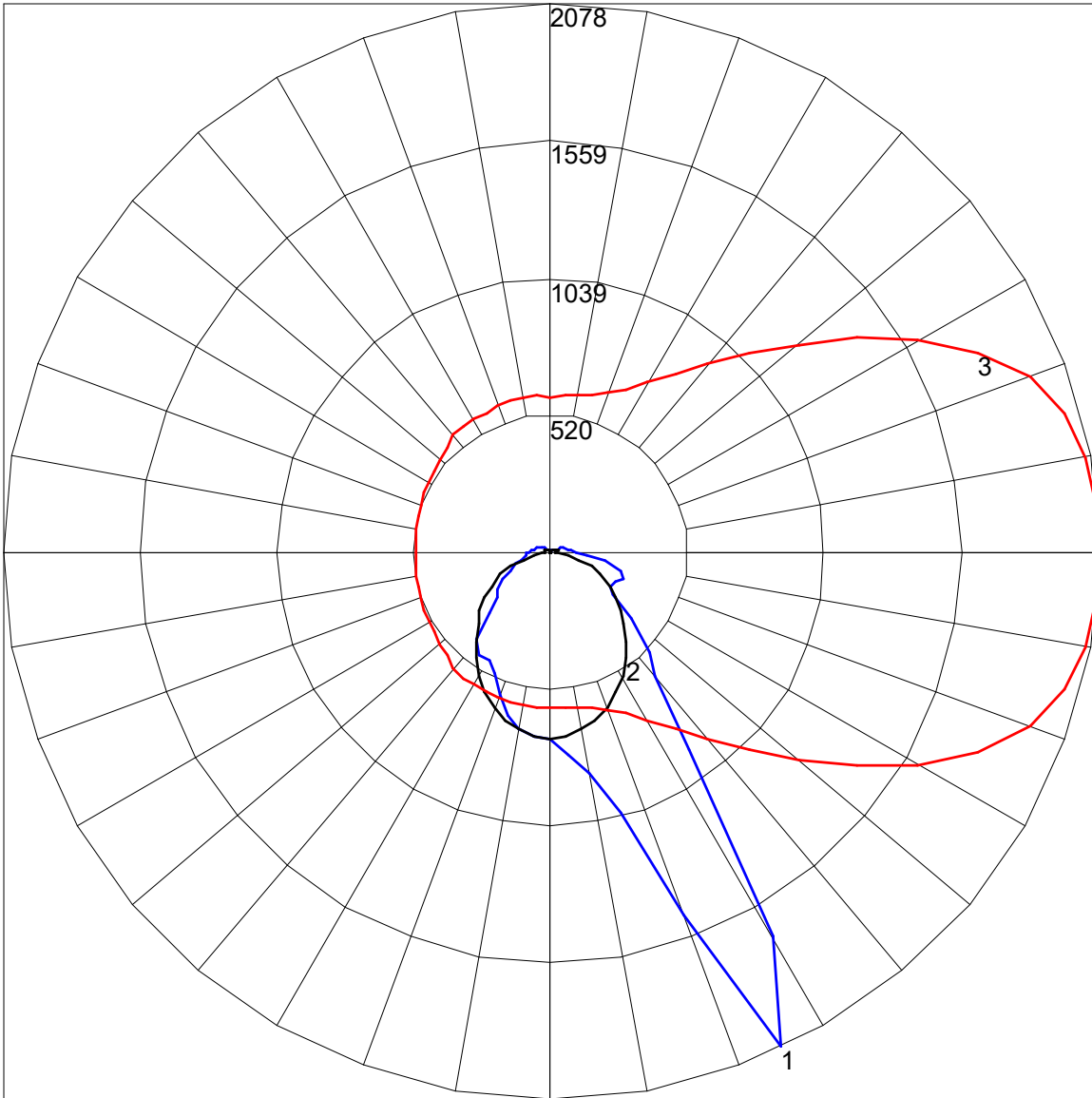
Reflectances

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	16.9	18.4	17.4	18.8	19.3	18.1	19.6	18.5	20.0	20.4
	3H	20.5	21.8	20.9	22.2	22.7	18.9	20.3	19.4	20.7	21.2
	4H	22.3	23.6	22.8	24.0	24.5	19.1	20.4	19.6	20.9	21.4
	6H	23.8	25.0	24.3	25.4	25.9	19.3	20.4	19.7	20.9	21.4
	8H	24.3	25.5	24.8	26.0	26.5	19.3	20.4	19.8	20.9	21.4
	12H	24.9	25.9	25.4	26.4	27.0	19.3	20.3	19.8	20.8	21.4
4H	2H	17.6	18.9	18.1	19.3	19.8	18.3	19.6	18.8	20.0	20.5
	3H	21.2	22.2	21.7	22.7	23.3	19.5	20.5	20.0	21.0	21.6
	4H	23.1	24.1	23.6	24.6	25.2	19.8	20.8	20.3	21.3	21.9
	6H	24.7	25.6	25.2	26.1	26.7	20.1	20.9	20.6	21.5	22.0
	8H	25.4	26.2	25.9	26.7	27.3	20.1	20.9	20.6	21.5	22.0
	12H	25.9	26.7	26.5	27.2	27.8	20.1	20.9	20.7	21.4	22.0
8H	4H	23.3	24.1	23.8	24.7	25.2	20.2	21.0	20.7	21.6	22.1
	6H	25.0	25.7	25.6	26.3	26.9	20.6	21.3	21.2	21.9	22.4
	8H	25.8	26.4	26.4	27.0	27.6	20.7	21.3	21.3	21.9	22.5
	12H	26.4	27.0	27.0	27.6	28.2	20.8	21.3	21.4	21.9	22.6
12H	4H	23.3	24.0	23.9	24.6	25.2	20.3	21.1	20.9	21.6	22.2
	6H	25.0	25.7	25.6	26.2	26.9	20.8	21.4	21.3	21.9	22.6
	8H	25.8	26.4	26.4	27.0	27.6	20.9	21.5	21.5	22.1	22.7

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 2078 Located At Horizontal Angle = 5, Vertical Angle = 25
1 - Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)