



Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L122310701.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L122310701
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 12/15/2023
[MANUFAC] Bartco Lighting, Inc.
[LUMCAT] BSW214-4-35-IN-R-SM-SN-AW
[LUMINAIRE] Fathom 3" Square LED Luminaire, Wet Location, 48-5/8" Nom. O.A,
[MORE] 3500K, 120-277V Non-Dimming Driver, Reg.Output, Surface Mount,
[MORE] Single Config., Architectural White Finish
[BALLASTCAT] Amperor ANP101-24P1-277-2500-1-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	2622
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	23.24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9125	9034	8851
55	8587	8362	8156
65	7863	7659	7430
75	6897	6773	6606
85	5923	5676	5429

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	370.14	N.A.	14.10
0-30	770.69	N.A.	29.40
0-40	1234.05	N.A.	47.10
0-60	2095.42	N.A.	79.90
0-80	2569.73	N.A.	98.00
0-90	2621.9	N.A.	100.00
10-90	2524.79	N.A.	96.30
20-40	863.90	N.A.	32.90
20-50	1323.92	N.A.	50.50
40-70	1161.25	N.A.	44.30
60-80	474.31	N.A.	18.10
70-80	174.43	N.A.	6.70
80-90	52.17	N.A.	2.00
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	2621.9	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.11
10-20	273.03
20-30	400.55
30-40	463.35
40-50	460.02
50-60	401.36
60-70	299.88
70-80	174.43
80-90	52.17
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	94	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	72	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	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	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	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

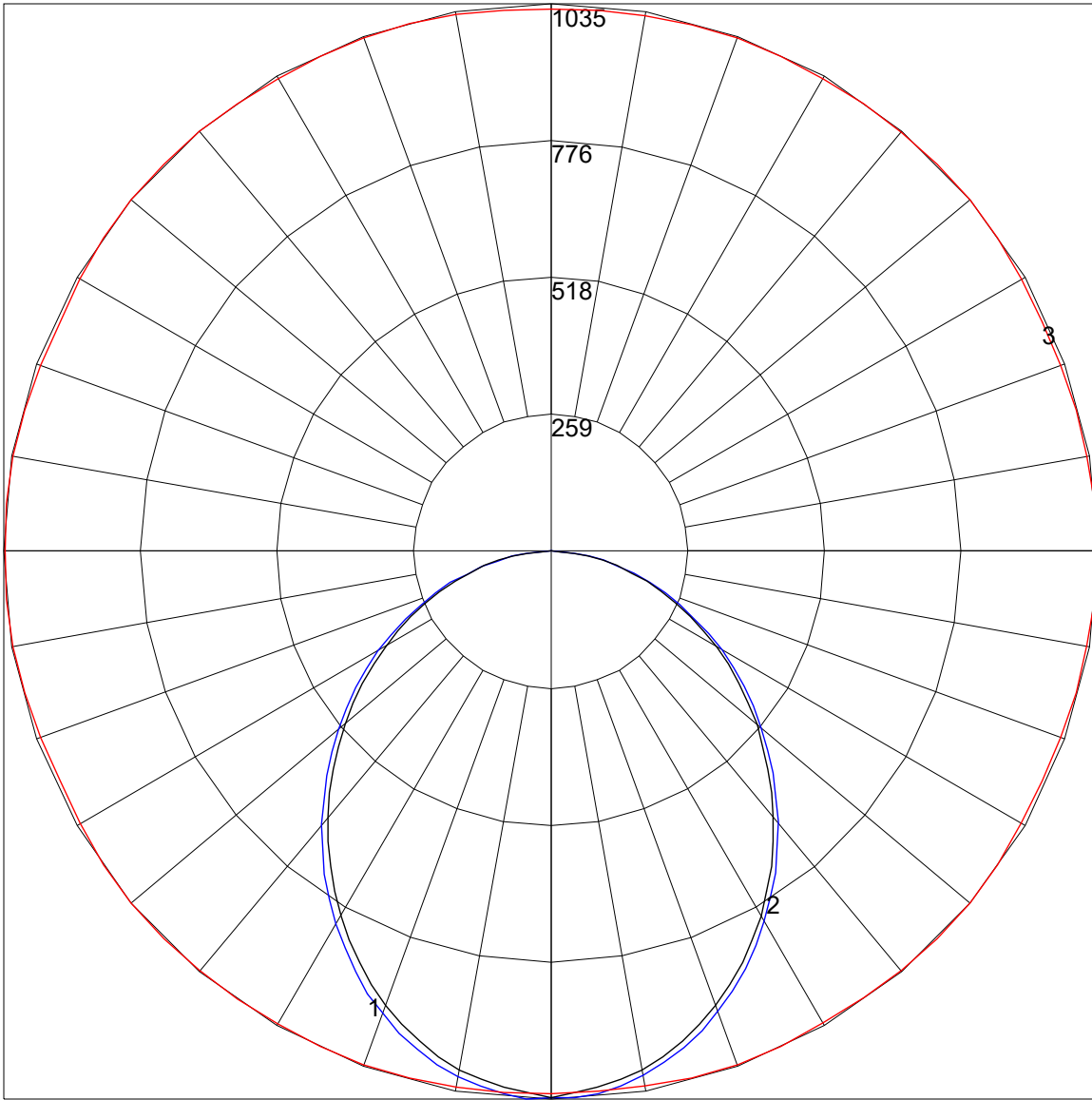
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UGR TABLE - CORRECTED

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	19.5	21.1	19.9	21.4	21.7	19.2	20.9	19.6	21.2	21.5
	3H	21.3	22.7	21.7	23.1	23.4	21.0	22.5	21.4	22.8	23.1
	4H	22.0	23.3	22.3	23.7	24.0	21.7	23.0	22.1	23.4	23.8
	6H	22.5	23.7	22.9	24.1	24.5	22.2	23.5	22.6	23.8	24.2
	8H	22.7	23.9	23.1	24.3	24.7	22.4	23.6	22.8	24.0	24.4
	12H	22.8	23.9	23.2	24.3	24.8	22.5	23.6	22.9	24.0	24.5
4H	2H	20.1	21.5	20.5	21.8	22.2	19.9	21.3	20.3	21.6	22.0
	3H	22.1	23.2	22.5	23.6	24.0	21.9	23.0	22.3	23.4	23.8
	4H	22.9	23.9	23.3	24.4	24.8	22.7	23.7	23.1	24.1	24.6
	6H	23.6	24.5	24.0	24.9	25.4	23.3	24.2	23.8	24.7	25.1
	8H	23.8	24.7	24.3	25.1	25.6	23.5	24.4	24.0	24.8	25.3
	12H	24.0	24.7	24.5	25.2	25.7	23.7	24.5	24.2	25.0	25.4
8H	4H	23.2	24.1	23.7	24.5	25.0	23.0	23.9	23.5	24.3	24.8
	6H	24.0	24.7	24.5	25.2	25.7	23.8	24.5	24.3	25.0	25.5
	8H	24.3	24.9	24.8	25.5	25.9	24.1	24.7	24.6	25.2	25.7
	12H	24.6	25.1	25.1	25.6	26.2	24.3	24.9	24.9	25.4	26.0
12H	4H	23.2	24.0	23.7	24.5	24.9	23.0	23.8	23.5	24.3	24.8
	6H	24.1	24.7	24.6	25.2	25.7	23.9	24.5	24.4	25.0	25.5
	8H	24.4	25.0	24.9	25.5	26.0	24.2	24.8	24.7	25.3	25.8

Maximum UGR = 26.2

POLAR GRAPH



Maximum Candela = 1035 Located At Horizontal Angle = 135, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (135 - 315) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)