

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L052411807.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L052411807
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUEDATE] 5/31/2024
 [MANUFAC] Bartco Lighting, Inc.
 [LUMCAT] BSW255-4-35-RN-1-NA-R-NA-A-C4-SN-AW
 [LUMINAIRE] Fathom 2" W Direct/Indirect Luminaire for Outdoor Locations,
 [MORE] 48-5/8" Nom. O.A., 3500K, 120-277V Non-Dimming Driver,
 [MORE] N/A Output Indirect, Reg. Output Direct, N/A Indirect, Flush Lens Direct,
 [MORE] 4' Cable 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	2109
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	23.21
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.26
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	10717	10585	10275
55	9964	9691	9363
65	8966	8744	8447
75	7623	7502	7381
85	5030	5210	5390

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	307.99	N.A.	14.60
0-30	637.08	N.A.	30.20
0-40	1013.54	N.A.	48.10
0-60	1702.64	N.A.	80.70
0-80	2072.21	N.A.	98.20
0-90	2109.25	N.A.	100.00
10-90	2027.96	N.A.	96.10
20-40	705.55	N.A.	33.50
20-50	1075.41	N.A.	51.00
40-70	924.66	N.A.	43.80
60-80	369.58	N.A.	17.50
70-80	134.01	N.A.	6.40
80-90	37.04	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	2109.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	81.29
10-20	226.69
20-30	329.09
30-40	376.46
40-50	369.86
50-60	319.24
60-70	235.56
70-80	134.01
80-90	37.04
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

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	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	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	84	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

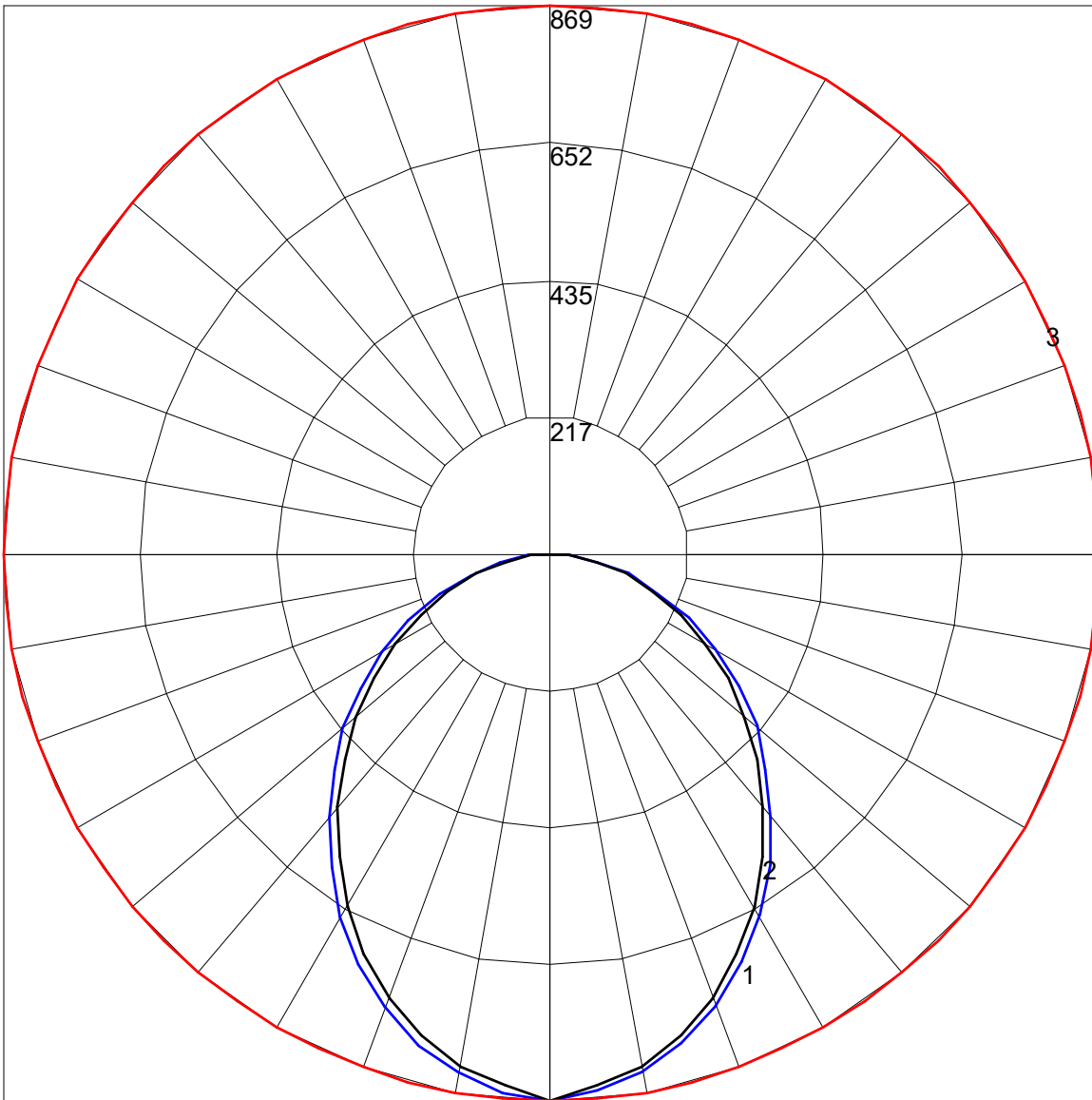
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UGR TABLE - CORRECTED

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	20.0	21.6	20.3	21.9	22.2	19.6	21.2	20.0	21.6	21.9
	3H	21.7	23.1	22.1	23.4	23.8	21.4	22.8	21.7	23.1	23.5
	4H	22.3	23.7	22.7	24.0	24.4	22.0	23.4	22.4	23.7	24.1
	6H	22.8	24.0	23.2	24.4	24.8	22.5	23.7	22.9	24.1	24.5
	8H	22.9	24.1	23.3	24.5	24.9	22.6	23.8	23.1	24.2	24.6
	12H	23.0	24.1	23.4	24.5	24.9	22.7	23.9	23.2	24.3	24.7
4H	2H	20.5	21.9	20.9	22.2	22.6	20.3	21.6	20.7	22.0	22.4
	3H	22.5	23.6	22.9	24.0	24.4	22.2	23.4	22.6	23.8	24.2
	4H	23.2	24.2	23.6	24.7	25.1	23.0	24.0	23.4	24.4	24.9
	6H	23.8	24.7	24.3	25.1	25.6	23.6	24.5	24.1	24.9	25.4
	8H	24.0	24.8	24.5	25.3	25.7	23.8	24.6	24.3	25.1	25.5
	12H	24.1	24.9	24.6	25.3	25.8	23.9	24.7	24.4	25.2	25.6
8H	4H	23.5	24.3	24.0	24.8	25.3	23.3	24.1	23.8	24.6	25.1
	6H	24.2	24.9	24.7	25.4	25.9	24.0	24.7	24.5	25.2	25.7
	8H	24.5	25.1	25.0	25.6	26.1	24.3	24.9	24.8	25.4	25.9
	12H	24.6	25.2	25.1	25.7	26.2	24.5	25.1	25.0	25.6	26.1
12H	4H	23.5	24.3	24.0	24.8	25.2	23.3	24.1	23.8	24.6	25.0
	6H	24.3	24.9	24.8	25.4	25.9	24.1	24.7	24.6	25.2	25.7
	8H	24.5	25.1	25.1	25.6	26.2	24.4	25.0	24.9	25.5	26.0

Maximum UGR = 26.2

POLAR GRAPH



Maximum Candela = 869 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.)