

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L052411811.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L052411811
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 5/31/2024
 [MANUFAC] Bartco Lighting, Inc.
 [LUMCAT] BSW755-4-35-IN-R-SM-SN-AW
 [LUMINAIRE] Fathom 4-1/4" Square Corner Mount 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	2918
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	22.71
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.82
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.50
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.04 ft
Luminous Width (90-270)	4.04 ft
Luminous Height	0.35 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6438	7154	28927
55	5613	6185	30561
65	4979	5413	30807
75	4446	4419	27007
85	3961	3627	23786

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	203.19	N.A.	7.00
0-30	437.59	N.A.	15.00
0-40	729.88	N.A.	25.00
0-60	1390.3	N.A.	47.60
0-80	1967.47	N.A.	67.40
0-90	2166.43	N.A.	74.20
10-90	2114.52	N.A.	72.50
20-40	526.69	N.A.	18.10
20-50	851.64	N.A.	29.20
40-70	976.37	N.A.	33.50
60-80	577.17	N.A.	19.80
70-80	261.22	N.A.	9.00
80-90	198.95	N.A.	6.80
90-110	341.57	N.A.	11.70
90-120	484.76	N.A.	16.60
90-130	593.73	N.A.	20.30
90-150	713.09	N.A.	24.40
90-180	751.51	N.A.	25.80
110-180	409.94	N.A.	14.00
0-180	2917.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.91
10-20	151.27
20-30	234.41
30-40	292.29
40-50	324.94
50-60	335.48
60-70	315.95
70-80	261.22
80-90	198.95
90-100	175.45
100-110	166.12
110-120	143.18
120-130	108.98
130-140	72.99
140-150	46.36
150-160	25.75
160-170	10.62
170-180	2.06

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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74	0
1	100	94	89	84	95	89	85	80	80	77	73	72	69	66	64	62	60	56	0
2	90	80	73	66	85	76	69	63	69	63	58	61	57	53	55	51	48	44	0
3	81	70	61	54	76	66	58	52	59	53	47	53	48	43	47	43	39	36	0
4	74	61	52	45	69	58	50	43	52	45	40	47	41	36	42	37	33	30	0
5	68	54	45	38	64	51	43	36	46	39	34	42	36	31	37	32	28	25	0
6	62	48	39	33	59	46	38	31	42	34	29	38	31	27	34	29	25	22	0
7	57	44	35	28	54	42	33	27	38	31	25	34	28	24	31	26	22	19	0
8	53	40	31	25	50	38	30	24	34	27	22	31	25	21	28	23	19	17	0
9	50	36	28	22	47	35	27	22	31	25	20	29	23	19	26	21	17	15	0
10	46	33	25	20	44	32	24	19	29	23	18	26	21	17	24	19	16	14	0

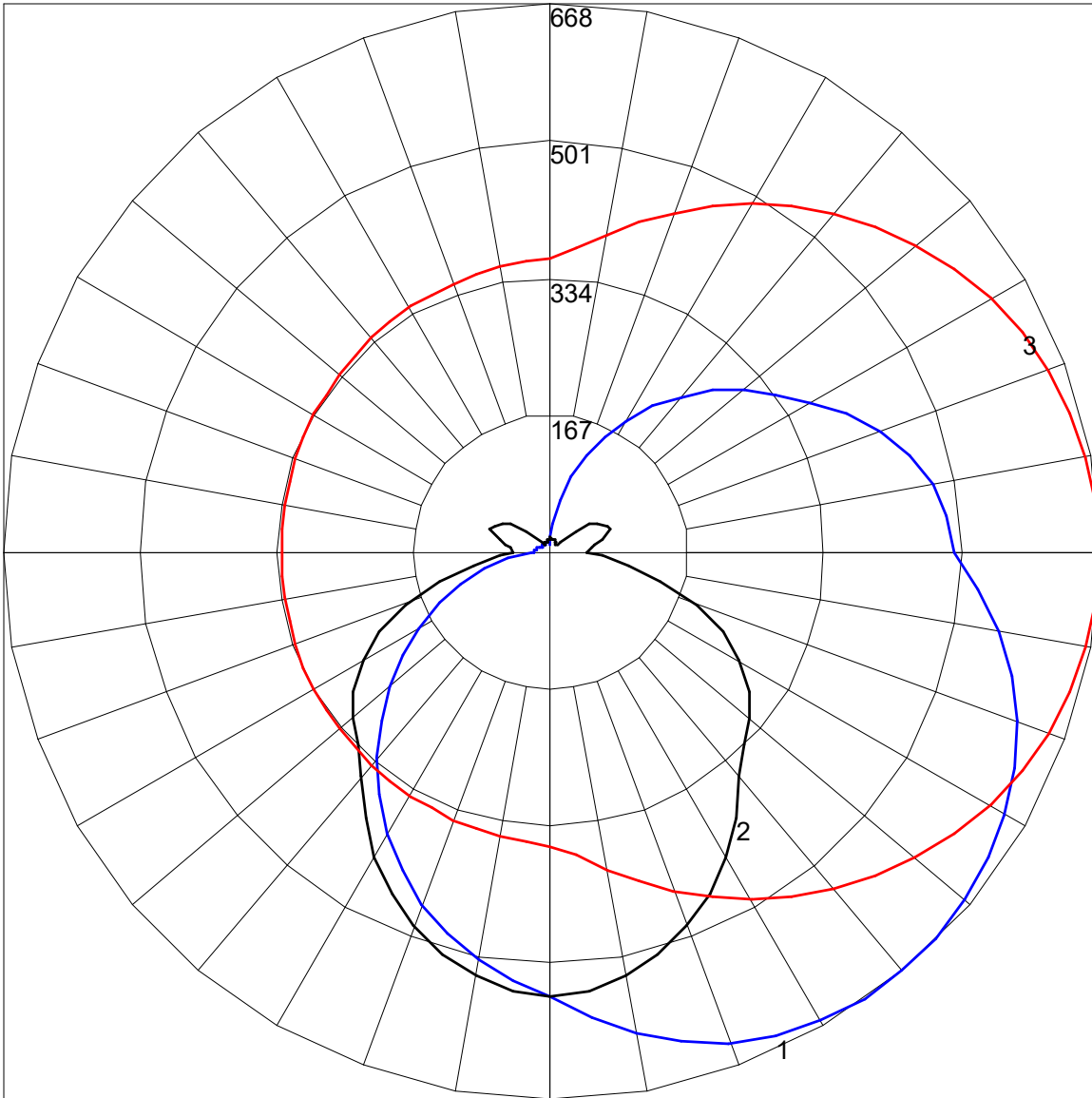
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UGR TABLE - CORRECTED

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	21.3	22.5	22.0	23.3	24.2	13.4	14.7	14.1	15.4	16.3
	3H	24.7	25.8	25.4	26.6	27.5	14.9	16.0	15.6	16.8	17.7
	4H	26.4	27.5	27.1	28.2	29.2	15.4	16.4	16.1	17.2	18.1
	6H	28.3	29.3	29.0	30.0	31.0	15.6	16.7	16.4	17.4	18.4
	8H	29.3	30.2	30.0	31.0	31.9	15.7	16.7	16.5	17.5	18.4
	12H	30.3	31.3	31.1	32.1	33.0	15.8	16.7	16.5	17.5	18.5
4H	2H	21.4	22.5	22.2	23.3	24.2	14.8	15.9	15.6	16.7	17.6
	3H	24.9	25.8	25.7	26.6	27.6	16.5	17.5	17.3	18.3	19.2
	4H	26.7	27.6	27.5	28.4	29.4	17.1	18.0	17.9	18.8	19.7
	6H	28.8	29.5	29.5	30.3	31.3	17.5	18.3	18.3	19.1	20.1
	8H	29.8	30.5	30.6	31.3	32.3	17.7	18.4	18.4	19.2	20.2
	12H	31.0	31.7	31.8	32.5	33.5	17.7	18.4	18.5	19.2	20.2
8H	4H	26.8	27.5	27.6	28.3	29.3	18.2	18.9	19.0	19.7	20.7
	6H	28.9	29.5	29.7	30.3	31.3	18.9	19.5	19.7	20.3	21.3
	8H	30.0	30.6	30.9	31.4	32.4	19.1	19.6	19.9	20.5	21.5
	12H	31.3	31.8	32.1	32.7	33.7	19.3	19.8	20.1	20.6	21.6
12H	4H	26.8	27.4	27.6	28.3	29.2	18.6	19.2	19.4	20.1	21.0
	6H	28.9	29.4	29.7	30.3	31.3	19.3	19.9	20.2	20.7	21.8
	8H	30.0	30.5	30.9	31.4	32.4	19.7	20.2	20.5	21.0	22.1

Maximum UGR = 33.7

POLAR GRAPH



Maximum Candela = 668 Located At Horizontal Angle = 0, Vertical Angle = 40
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 (40) (Through Max. Cd.)