

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L052411810.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L052411810
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 6/12/2024
 [MANUFAC] Bartco Lighting, Inc.
 [LUMCAT] BSW750-4-35-RN-R-SM-SN-AW
 [LUMINAIRE] Fathom 3" Square Corner Mount LED Luminaire for
 [MORE] Outdoor Locations, 48-5/8" Nom. O.A., 3500K,
 [MORE] 120-277V Non-Dimming Driver, Reg. Output, Surface Mount,
 [MORE] 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	2347
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	22.81
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.92
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.58
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.25 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4038	3838	3736
55	4031	3907	4045
65	4038	3947	4218
75	4065	3768	3908
85	4139	3681	3743

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	153.52	N.A.	6.50
0-30	335.13	N.A.	14.30
0-40	566.50	N.A.	24.10
0-60	1100.17	N.A.	46.90
0-80	1574.00	N.A.	67.10
0-90	1738.01	N.A.	74.00
10-90	1699.27	N.A.	72.40
20-40	412.98	N.A.	17.60
20-50	674.09	N.A.	28.70
40-70	792.39	N.A.	33.80
60-80	473.83	N.A.	20.20
70-80	215.12	N.A.	9.20
80-90	164.00	N.A.	7.00
90-110	277.23	N.A.	11.80
90-120	393.87	N.A.	16.80
90-130	484.53	N.A.	20.60
90-150	581.18	N.A.	24.80
90-180	609.14	N.A.	26.00
110-180	331.91	N.A.	14.10
0-180	2347.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	38.73
10-20	114.79
20-30	181.60
30-40	231.37
40-50	261.11
50-60	272.56
60-70	258.71
70-80	215.12
80-90	164.00
90-100	143.80
100-110	133.43
110-120	116.64
120-130	90.65
130-140	59.93
140-150	36.73
150-160	19.48
160-170	7.33
170-180	1.15

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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	94	89	84	80	80	76	73	72	69	66	64	62	59	56	0
2	90	80	72	66	84	76	69	63	68	62	58	61	56	52	54	51	47	44	0
3	81	69	60	53	76	66	58	51	59	52	47	53	47	43	47	43	39	35	0
4	74	61	51	44	69	58	49	42	52	45	39	46	40	36	41	37	33	29	0
5	67	54	44	37	63	51	42	36	46	39	33	41	35	30	37	32	28	25	0
6	62	48	39	32	58	46	37	31	41	34	29	37	31	26	33	28	24	21	0
7	57	43	34	28	54	41	33	27	37	30	25	34	27	23	30	25	21	19	0
8	53	39	30	25	50	37	29	24	34	27	22	31	25	20	28	22	19	16	0
9	49	36	27	22	47	34	26	21	31	24	20	28	22	18	25	20	17	15	0
10	46	33	25	19	44	31	24	19	29	22	18	26	20	16	23	19	15	13	0

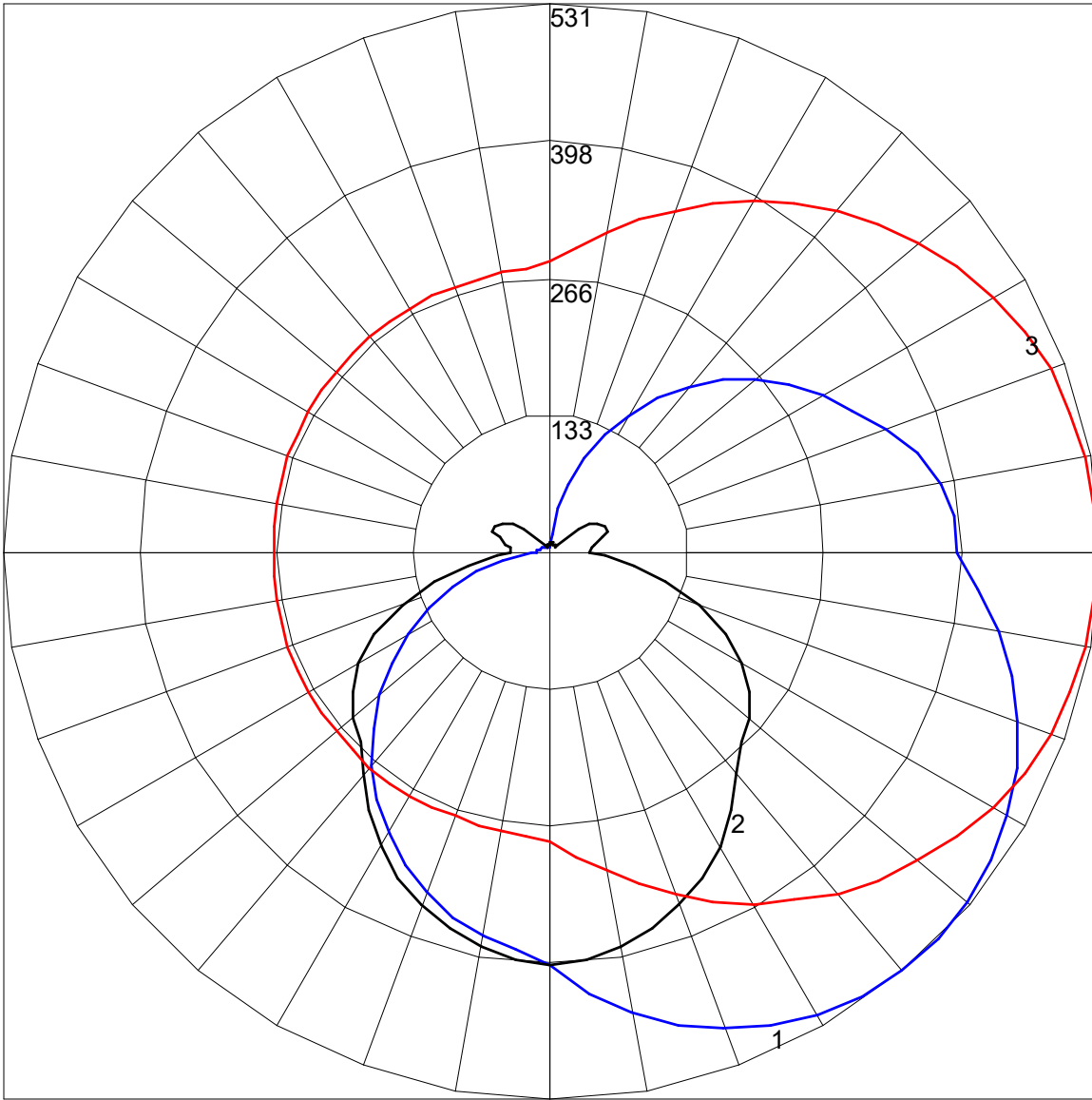
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UGR TABLE - CORRECTED

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	18.5	19.8	19.2	20.5	21.4	12.4	13.7	13.1	14.4	15.3
	3H	21.8	23.0	22.6	23.7	24.6	14.1	15.3	14.9	16.0	16.9
	4H	23.5	24.6	24.3	25.4	26.3	14.7	15.8	15.4	16.5	17.5
	6H	25.3	26.3	26.1	27.1	28.0	15.1	16.1	15.8	16.9	17.8
	8H	26.2	27.2	27.0	28.0	28.9	15.2	16.2	15.9	17.0	17.9
	12H	27.2	28.2	28.0	29.0	29.9	15.3	16.2	16.0	17.0	17.9
4H	2H	18.9	20.0	19.6	20.8	21.7	13.9	15.0	14.6	15.7	16.6
	3H	22.4	23.3	23.1	24.1	25.0	15.8	16.8	16.6	17.5	18.5
	4H	24.2	25.1	25.0	25.9	26.8	16.5	17.4	17.3	18.2	19.1
	6H	26.2	27.0	27.0	27.8	28.7	17.0	17.8	17.8	18.6	19.6
	8H	27.2	27.9	28.0	28.8	29.7	17.2	17.9	18.0	18.8	19.7
	12H	28.4	29.0	29.2	29.8	30.8	17.3	18.0	18.1	18.8	19.8
8H	4H	24.4	25.1	25.2	25.9	26.9	17.6	18.4	18.4	19.2	20.2
	6H	26.5	27.1	27.3	28.0	29.0	18.4	19.0	19.2	19.9	20.9
	8H	27.7	28.2	28.5	29.1	30.1	18.7	19.3	19.5	20.1	21.1
	12H	29.0	29.5	29.8	30.3	31.4	19.0	19.5	19.8	20.3	21.3
12H	4H	24.4	25.0	25.2	25.9	26.9	18.0	18.6	18.8	19.5	20.5
	6H	26.5	27.1	27.4	27.9	29.0	18.9	19.5	19.7	20.3	21.3
	8H	27.8	28.3	28.6	29.1	30.1	19.3	19.8	20.2	20.7	21.7

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 531 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.)