

Photometric Test Report

IES INDOOR REPORT**PHOTOMETRIC FILENAME : L041803901.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] L041803901
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 4/18/2018
[MANUFAC] Bartco Lighting, Inc.
[LUMCAT] BSS500-4-35-D-R-C4-SN-AW
[LUMINAIRE] Ø1-3/8" LED Luminaire, w/Remote Diver
[BALLASTCAT] PHILIPS ADVANCE XI040C110V054VPT1
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 24.65W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1980
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	24.65
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	3.75 ft
Luminous Height	0.03 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14487	16453	20755
55	11511	13346	17794
65	9427	10838	14818
75	8043	8985	12071
85	7339	8039	9700

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	779.84	779.84	779.84	779.84	779.84
5	776.81	773.32	773.49	773.86	773.65
10	758.62	755.43	756.67	757.96	758.54
15	727.32	727.07	729.10	731.55	732.88
20	687.79	686.05	691.03	696.01	696.10
25	637.14	636.97	645.49	651.13	651.59
30	577.44	581.71	591.64	597.41	600.52
35	515.58	522.67	533.26	540.15	541.98
40	454.04	456.83	471.19	479.00	477.46
45	392.93	399.45	412.44	415.60	412.69
50	334.31	343.07	352.33	351.95	344.44
55	282.82	289.51	296.15	292.62	287.97
60	239.89	243.59	247.16	237.90	230.26
65	200.53	203.81	201.99	187.29	177.70
70	166.41	168.61	163.21	142.74	130.78
75	139.34	139.05	130.45	105.83	89.76
80	118.41	114.63	102.80	75.36	54.80
85	94.33	92.88	80.05	50.69	25.74
90	77.06	74.98	61.70	33.17	2.16
95	63.03	60.08	46.71	20.88	0.66
100	50.24	47.54	34.75	12.79	0.00
105	40.02	37.37	25.70	7.72	0.00
110	31.47	28.94	18.77	4.78	0.00
115	24.66	21.88	13.37	3.03	0.00
120	18.60	16.44	9.43	2.28	0.00
125	13.87	12.12	6.56	1.87	0.00
130	10.13	8.72	4.61	1.79	0.00
135	7.22	6.15	3.41	0.00	0.00
140	5.15	4.61	2.74	0.00	0.00
145	3.90	3.57	2.49	0.00	0.00
150	3.16	2.87	0.00	0.00	0.00
155	2.82	2.78	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	278.62	N.A.	14.10
0-30	574.93	N.A.	29.00
0-40	906.77	N.A.	45.80
0-60	1482.91	N.A.	74.90
0-80	1808.86	N.A.	91.40
0-90	1887.66	N.A.	95.30
10-90	1814.31	N.A.	91.60
20-40	628.15	N.A.	31.70
20-50	942.72	N.A.	47.60
40-70	771.21	N.A.	39.00
60-80	325.95	N.A.	16.50
70-80	130.88	N.A.	6.60
80-90	78.80	N.A.	4.00
90-110	68.76	N.A.	3.50
90-120	81.64	N.A.	4.10
90-130	87.98	N.A.	4.40
90-150	91.94	N.A.	4.60
90-180	92.33	N.A.	4.70
110-180	23.56	N.A.	1.20
0-180	1979.98	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.35
10-20	205.27
20-30	296.31
30-40	331.84
40-50	314.56
50-60	261.57
60-70	195.07
70-80	130.88
80-90	78.80
90-100	44.26
100-110	24.51
110-120	12.87
120-130	6.34
130-140	2.75
140-150	1.21
150-160	0.38
160-170	0.00
170-180	0.00

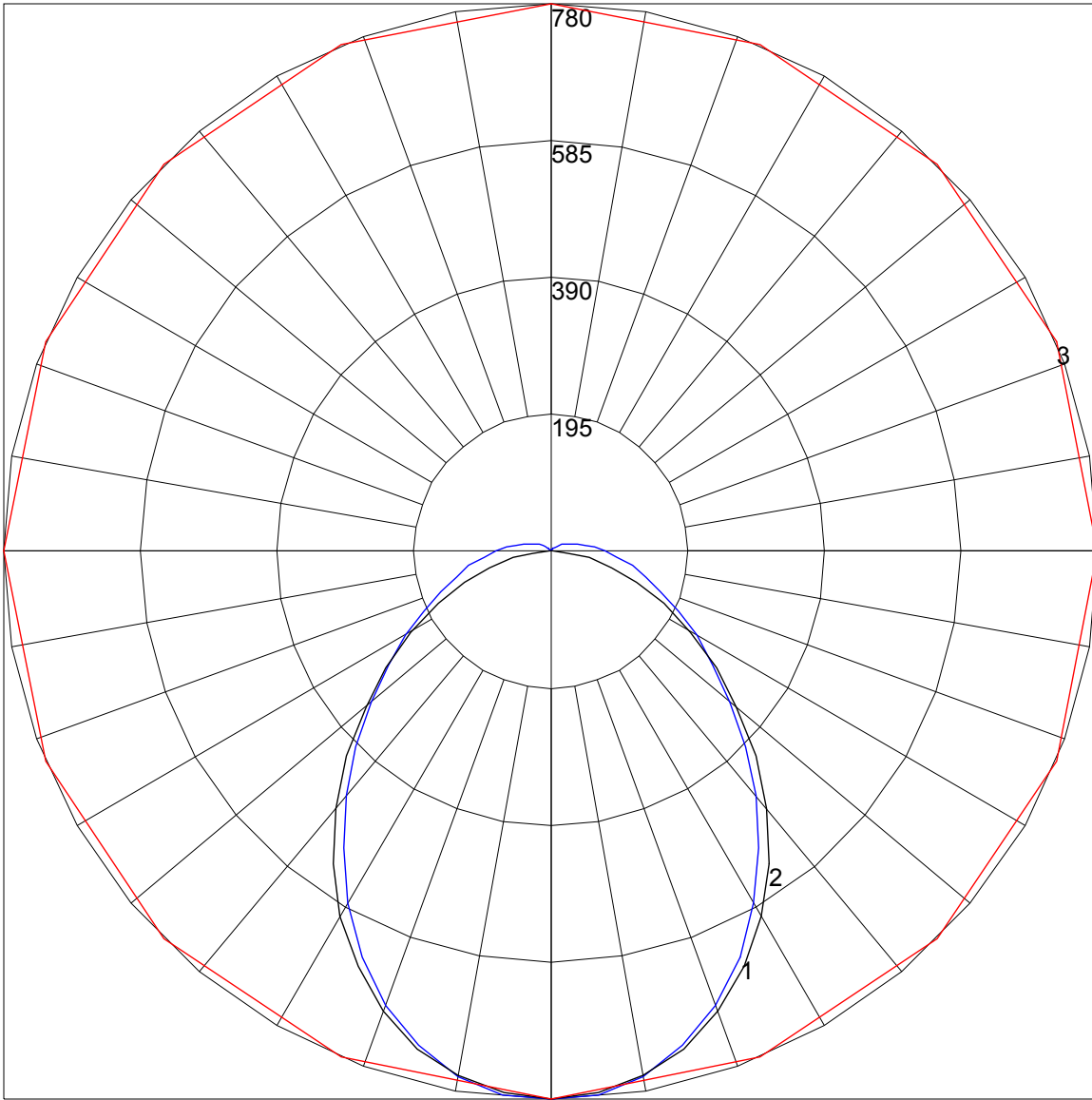
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	95
1	107	102	98	94	104	99	95	92	94	91	88	90	87	84	85	83	81	79
2	98	89	83	77	95	87	81	76	83	78	73	79	75	71	75	72	68	66
3	89	79	71	64	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	70	62	55	79	69	61	54	66	59	53	63	57	52	60	55	51	48
5	76	63	54	48	73	62	53	47	59	52	46	57	50	45	54	49	45	42
6	70	57	48	42	68	56	48	42	54	46	41	52	45	40	50	44	40	37
7	65	52	43	37	63	51	43	37	49	42	37	47	41	36	45	40	35	33
8	61	48	39	34	59	47	39	33	45	38	33	43	37	32	42	36	32	30
9	57	44	36	30	55	43	35	30	42	35	30	40	34	29	39	33	29	27
10	53	41	33	28	52	40	32	27	39	32	27	37	31	27	36	31	26	25

POLAR GRAPH



Maximum Candela = 779.84 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.)