



8165 E. Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L11705102.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L11705102  
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
[ISSUE DATE] 11/21/2017  
[MANUFAC] Bartco Lighting  
[LUMCAT] BSS255-4-35-DIRECT-B LENS  
[LUMINAIRE] LED Architectural Direct/indirect Rectangular Fixture  
[BALLASTCAT] PHILIPS ADVANCE XI040C110V054BST1  
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
[TEST CONDITION] FIXTURE IS TESTED WITH DIRECT SIDE TURNED ON ONLY WITH  
[MORE] 3 SIDE LENS.  
[INPUT] 120VAC, 26.71W  
[TEST PROCEDURE] IESNA:LM-79-08

## CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2402
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	26.71
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.17 ft
Luminous Width (90-270)	3.67 ft
Luminous Height	0.38 ft

## LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3447	4190	9604
55	2585	3073	7822
65	1939	2217	6044
75	1417	1542	4427
85	960	1016	2415

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	878.03	878.03	878.03	878.03	878.03	878.03	878.03	878.03	878.03	878.03
<b>5</b>	875.54	874.96	874.41	873.89	873.40	872.94	872.52	872.15	871.81	871.53
<b>10</b>	852.21	851.15	850.62	850.38	850.51	851.01	851.84	851.05	850.76	850.90
<b>15</b>	809.77	808.41	808.49	809.33	810.57	810.38	811.18	812.93	815.60	817.48
<b>20</b>	754.14	752.62	753.70	755.23	755.46	757.38	760.27	762.16	765.48	767.87
<b>25</b>	691.70	690.83	692.46	692.88	694.89	697.01	699.58	704.02	705.58	708.30
<b>30</b>	628.51	627.74	628.97	629.86	631.78	633.98	636.66	639.16	642.67	645.67
<b>35</b>	567.39	566.89	567.45	569.08	570.02	571.73	573.79	575.62	578.33	580.85
<b>40</b>	510.43	510.23	510.32	510.93	511.86	512.56	513.00	514.37	515.67	517.29
<b>45</b>	457.53	457.54	457.40	457.53	457.12	456.40	456.56	456.84	456.29	456.17
<b>50</b>	407.71	407.30	407.06	406.71	405.74	404.83	403.93	402.22	400.14	398.39
<b>55</b>	360.63	360.07	359.87	359.54	357.02	354.48	353.24	350.10	347.49	343.80
<b>60</b>	317.78	317.28	316.10	312.23	307.39	303.34	301.48	299.79	297.24	294.95
<b>65</b>	275.43	275.25	269.87	262.88	259.48	256.42	254.85	252.31	249.60	247.16
<b>70</b>	235.49	232.34	222.61	219.97	219.88	218.16	214.73	210.71	207.34	203.56
<b>75</b>	198.79	187.84	186.66	186.88	184.44	181.04	176.95	173.27	170.40	166.06
<b>80</b>	164.99	153.30	154.23	153.24	151.13	148.15	144.68	141.04	137.37	133.16
<b>85</b>	128.87	126.83	126.95	125.38	122.64	119.21	115.33	111.30	106.82	102.24
<b>90</b>	99.92	102.22	100.14	97.49	93.87	89.43	84.20	80.38	77.52	73.40
<b>95</b>	72.33	90.11	88.29	86.19	83.18	79.24	74.66	71.14	67.94	63.75
<b>100</b>	67.51	82.64	83.21	81.86	79.26	75.88	72.07	68.10	64.17	59.68
<b>105</b>	69.67	75.52	77.85	76.92	74.91	72.16	69.12	65.88	62.35	58.24
<b>110</b>	78.97	71.88	72.97	73.02	71.22	68.81	66.28	63.98	61.11	57.42
<b>115</b>	77.06	73.19	70.07	69.34	68.40	66.91	64.63	62.02	58.81	55.00
<b>120</b>	72.91	72.46	69.38	67.23	65.52	63.65	61.16	58.49	54.26	49.59
<b>125</b>	67.92	67.63	66.39	63.73	61.40	58.76	55.74	52.22	48.09	43.27
<b>130</b>	59.37	59.06	58.21	56.74	54.71	52.10	48.80	45.16	40.77	35.73
<b>135</b>	50.24	49.97	49.13	47.72	45.84	43.46	40.28	36.58	32.44	27.77
<b>140</b>	40.27	40.08	39.33	38.07	36.25	33.90	31.08	27.60	24.36	22.15
<b>145</b>	30.31	30.15	29.61	28.61	27.12	25.02	22.49	21.55	20.24	18.71
<b>150</b>	22.17	22.11	21.89	21.52	21.01	20.37	19.57	18.63	17.57	16.39
<b>155</b>	18.93	18.89	18.70	18.39	17.96	17.40	16.71	15.91	15.05	14.10
<b>160</b>	15.69	15.68	15.46	15.20	14.87	14.44	13.92	13.30	12.61	11.84
<b>165</b>	12.37	12.38	12.25	12.08	11.83	11.52	11.14	10.70	10.20	9.64
<b>170</b>	9.30	9.29	9.20	9.08	8.92	8.71	8.47	8.20	7.89	7.53
<b>175</b>	6.31	6.32	6.32	6.25	6.19	6.12	6.03	5.93	5.81	5.68
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	878.03	878.03	878.03	878.03	878.03	878.03	878.03	878.03	878.03
<b>5</b>	871.29	871.11	870.98	870.90	870.87	870.90	870.93	871.10	871.30
<b>10</b>	851.46	852.44	853.76	852.49	851.51	850.83	850.45	850.31	850.63
<b>15</b>	818.30	817.89	818.26	819.42	821.55	819.74	818.54	817.86	818.24
<b>20</b>	769.77	771.86	774.81	774.25	774.89	776.92	774.20	772.28	772.24
<b>25</b>	712.55	714.96	716.77	720.05	719.54	719.81	719.29	715.95	715.44
<b>30</b>	648.90	652.26	654.80	655.98	658.49	657.26	658.20	653.51	652.34
<b>35</b>	583.85	587.36	588.55	589.78	590.18	589.35	587.84	583.89	581.09
<b>40</b>	518.44	520.03	520.79	521.56	520.58	519.56	515.21	510.65	506.86
<b>45</b>	455.72	455.31	454.60	453.81	452.64	449.47	444.51	439.59	434.78
<b>50</b>	396.70	395.02	391.56	388.35	387.19	381.14	374.85	367.38	356.73
<b>55</b>	341.07	335.10	329.94	327.76	324.64	318.39	311.31	304.55	298.77
<b>60</b>	291.24	285.93	280.62	274.24	267.33	259.84	251.98	243.75	238.65

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**CANDELA TABULATION - (Cont.)**

<b>65</b>	243.57	237.85	230.91	223.00	214.80	206.49	198.34	189.19	181.10
<b>70</b>	199.17	194.18	187.06	178.08	169.10	160.06	151.36	141.43	133.52
<b>75</b>	161.01	155.48	148.02	138.22	128.33	118.39	108.75	100.30	92.17
<b>80</b>	127.68	121.15	113.05	103.44	93.75	84.24	78.56	64.30	56.05
<b>85</b>	97.71	92.61	85.31	76.53	63.92	53.95	43.83	34.88	26.66
<b>90</b>	69.63	62.20	55.34	47.75	37.91	28.61	18.97	9.55	1.25
<b>95</b>	58.64	52.54	45.80	38.75	31.20	23.44	15.68	7.17	1.16
<b>100</b>	54.62	49.15	43.33	36.63	29.28	21.19	12.81	5.68	0.00
<b>105</b>	53.90	49.08	43.35	35.97	27.67	18.69	9.97	5.30	0.00
<b>110</b>	53.12	47.68	40.80	32.54	23.56	15.06	8.99	5.09	0.00
<b>115</b>	49.82	43.41	35.72	27.34	19.13	12.45	8.57	5.00	0.00
<b>120</b>	44.01	37.40	29.73	21.87	15.89	11.49	8.17	4.93	0.00
<b>125</b>	37.25	30.73	24.00	17.52	14.07	10.90	7.82	4.88	0.00
<b>130</b>	30.05	23.80	19.49	15.77	13.04	10.25	7.46	4.83	0.00
<b>135</b>	23.53	19.24	16.98	14.56	12.11	9.61	7.09	4.79	0.00
<b>140</b>	19.29	17.41	15.41	13.31	11.13	8.90	6.71	4.78	0.00
<b>145</b>	17.20	15.57	13.86	12.05	10.17	8.26	6.32	4.75	0.00
<b>150</b>	15.12	13.75	12.29	10.76	9.16	7.57	5.95	4.71	0.00
<b>155</b>	13.04	11.91	10.72	9.45	8.19	6.89	5.70	0.00	0.00
<b>160</b>	11.01	10.11	9.16	8.22	7.23	6.20	5.41	0.00	0.00
<b>165</b>	9.03	8.39	7.72	7.02	6.28	5.72	5.15	0.00	0.00
<b>170</b>	7.15	6.73	6.29	5.95	5.60	5.24	4.88	0.00	0.00
<b>175</b>	5.54	5.38	5.21	5.04	4.85	4.66	4.47	0.00	0.00
<b>180</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	311.69	N.A.	13.00
0-30	637.17	N.A.	26.50
0-40	999.96	N.A.	41.60
0-60	1655.22	N.A.	68.90
0-80	2059.95	N.A.	85.80
0-90	2162.3	N.A.	90.00
10-90	2079.73	N.A.	86.60
20-40	688.27	N.A.	28.70
20-50	1038.98	N.A.	43.30
40-70	893.26	N.A.	37.20
60-80	404.73	N.A.	16.90
70-80	166.72	N.A.	6.90
80-90	102.36	N.A.	4.30
90-110	116.71	N.A.	4.90
90-120	162.26	N.A.	6.80
90-130	196.89	N.A.	8.20
90-150	230.50	N.A.	9.60
90-180	239.47	N.A.	10.00
110-180	122.76	N.A.	5.10
0-180	2401.78	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	82.58
10-20	229.11
20-30	325.48
30-40	362.79
40-50	350.70
50-60	304.55
60-70	238.00
70-80	166.72
80-90	102.36
90-100	63.07
100-110	53.64
110-120	45.54
120-130	34.63
130-140	21.91
140-150	11.71
150-160	5.95
160-170	2.53
170-180	0.49

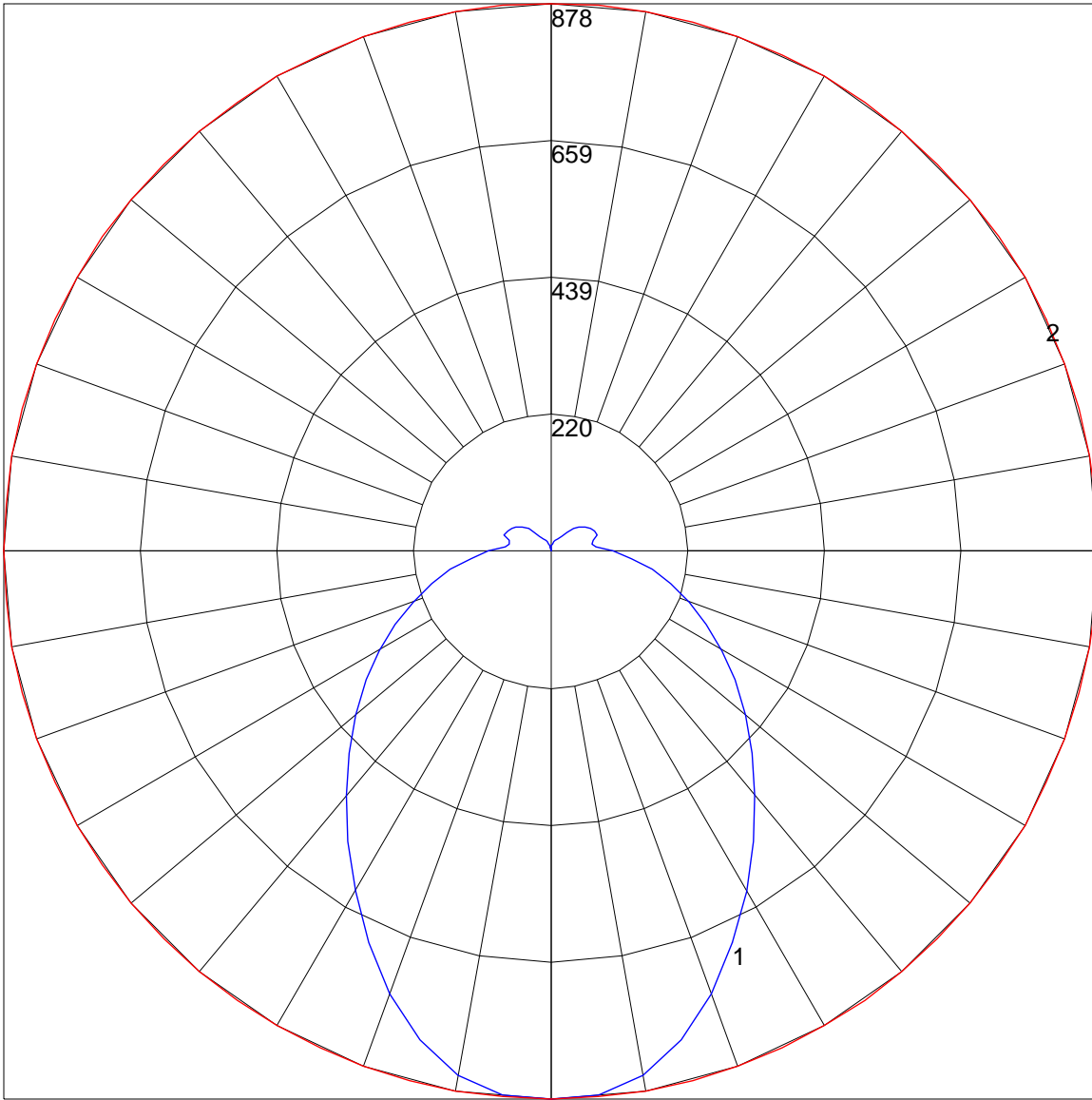
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	92	102	97	93	89	91	88	85	86	83	80	80	78	76	74
2	96	88	81	75	92	85	79	73	80	74	70	75	71	67	71	67	64	61	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	57	63	58	54	52	52
4	80	69	60	53	77	67	59	52	63	56	51	59	54	49	56	51	47	45	45
5	74	61	53	46	71	60	52	45	57	49	44	54	47	43	51	45	41	39	39
6	69	56	47	40	66	54	46	40	51	44	39	49	42	38	46	41	37	34	34
7	64	50	42	36	61	49	41	35	47	40	34	44	38	34	42	37	33	31	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	34	29	27	27
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	25	25
10	52	39	32	26	50	38	31	26	37	30	26	35	29	25	34	28	24	23	23

POLAR GRAPH



Maximum Candela = 878.03 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)