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# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L101601202.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L101601202  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUEDATE] 10/18/2016  
 [MANUFAC] BARTCO LIGHTING  
 [LUMCAT] BSS215-4-35-11-SM-WH  
 [LUMINAIRE] LED FIXTURE  
 [BALLASTCAT] PHILIPS ADVANCE XI040C110V054BPT1  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [INPUT] 120VAC, 18.60W  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2177
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	18.6
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.69 ft
Luminous Width (90-270)	0.27 ft
Luminous Height	0.17 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5167	4045	4102
55	4200	3531	3835
65	3290	3086	3441
75	2535	2647	2816
85	1470	2210	2165

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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>
<b>0</b>	688.07	688.07	688.07	688.07	688.07
<b>5</b>	683.64	684.48	685.15	686.45	685.07
<b>10</b>	670.39	672.27	673.57	674.25	672.40
<b>15</b>	646.22	649.75	651.13	649.37	646.14
<b>20</b>	612.58	618.24	616.81	613.46	611.40
<b>25</b>	572.97	578.39	575.49	571.46	570.37
<b>30</b>	524.90	530.65	529.22	527.75	528.25
<b>35</b>	470.86	478.92	481.52	487.14	492.01
<b>40</b>	410.96	425.10	435.04	451.90	462.89
<b>45</b>	354.07	370.35	391.58	421.78	437.89
<b>50</b>	295.26	318.08	348.49	394.30	413.64
<b>55</b>	237.87	268.57	315.64	366.24	387.05
<b>60</b>	188.20	223.43	279.99	332.51	354.57
<b>65</b>	141.55	182.66	244.62	299.03	316.65
<b>70</b>	102.11	146.45	209.51	258.13	272.27
<b>75</b>	71.23	114.19	176.62	217.35	226.20
<b>80</b>	40.69	87.85	143.98	176.16	182.49
<b>85</b>	18.12	63.05	115.28	140.16	143.31
<b>90</b>	3.86	44.85	91.92	110.04	113.69
<b>95</b>	0.76	39.64	80.67	93.89	95.15
<b>100</b>	0.00	36.08	70.48	84.32	83.40
<b>105</b>	0.00	33.06	63.56	74.93	75.76
<b>110</b>	0.00	30.29	57.73	68.76	70.14
<b>115</b>	0.00	27.73	52.69	63.68	65.44
<b>120</b>	0.00	25.17	48.04	58.94	61.08
<b>125</b>	0.00	22.78	43.67	54.37	56.80
<b>130</b>	0.00	19.80	39.27	49.59	52.44
<b>135</b>	0.00	17.03	34.36	44.64	47.49
<b>140</b>	0.00	14.43	29.20	39.69	42.46
<b>145</b>	0.00	12.25	24.33	34.48	37.09
<b>150</b>	0.00	10.28	20.10	29.03	31.55
<b>155</b>	0.00	8.68	16.57	22.86	26.09
<b>160</b>	0.00	7.17	13.17	17.16	20.47
<b>165</b>	0.00	5.66	9.82	12.33	15.19
<b>170</b>	0.00	4.57	6.88	8.35	10.24
<b>175</b>	0.00	3.73	4.53	4.82	5.37
<b>180</b>	0.00	0.00	0.00	0.00	0.00

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	247.60	N.A.	11.40
0-30	511.91	N.A.	23.50
0-40	814.17	N.A.	37.40
0-60	1402.1	N.A.	64.40
0-80	1812.64	N.A.	83.30
0-90	1923.3	N.A.	88.40
10-90	1858.31	N.A.	85.40
20-40	566.56	N.A.	26.00
20-50	871.94	N.A.	40.10
40-70	824.49	N.A.	37.90
60-80	410.55	N.A.	18.90
70-80	173.98	N.A.	8.00
80-90	110.66	N.A.	5.10
90-110	128.26	N.A.	5.90
90-120	172.23	N.A.	7.90
90-130	205.70	N.A.	9.50
90-150	243.11	N.A.	11.20
90-180	253.30	N.A.	11.60
110-180	125.04	N.A.	5.70
0-180	2176.6	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	65.00
10-20	182.61
20-30	264.30
30-40	302.26
40-50	305.38
50-60	282.55
60-70	236.56
70-80	173.98
80-90	110.66
90-100	72.47
100-110	55.79
110-120	43.97
120-130	33.47
130-140	23.25
140-150	14.16
150-160	7.17
160-170	2.61
170-180	0.41

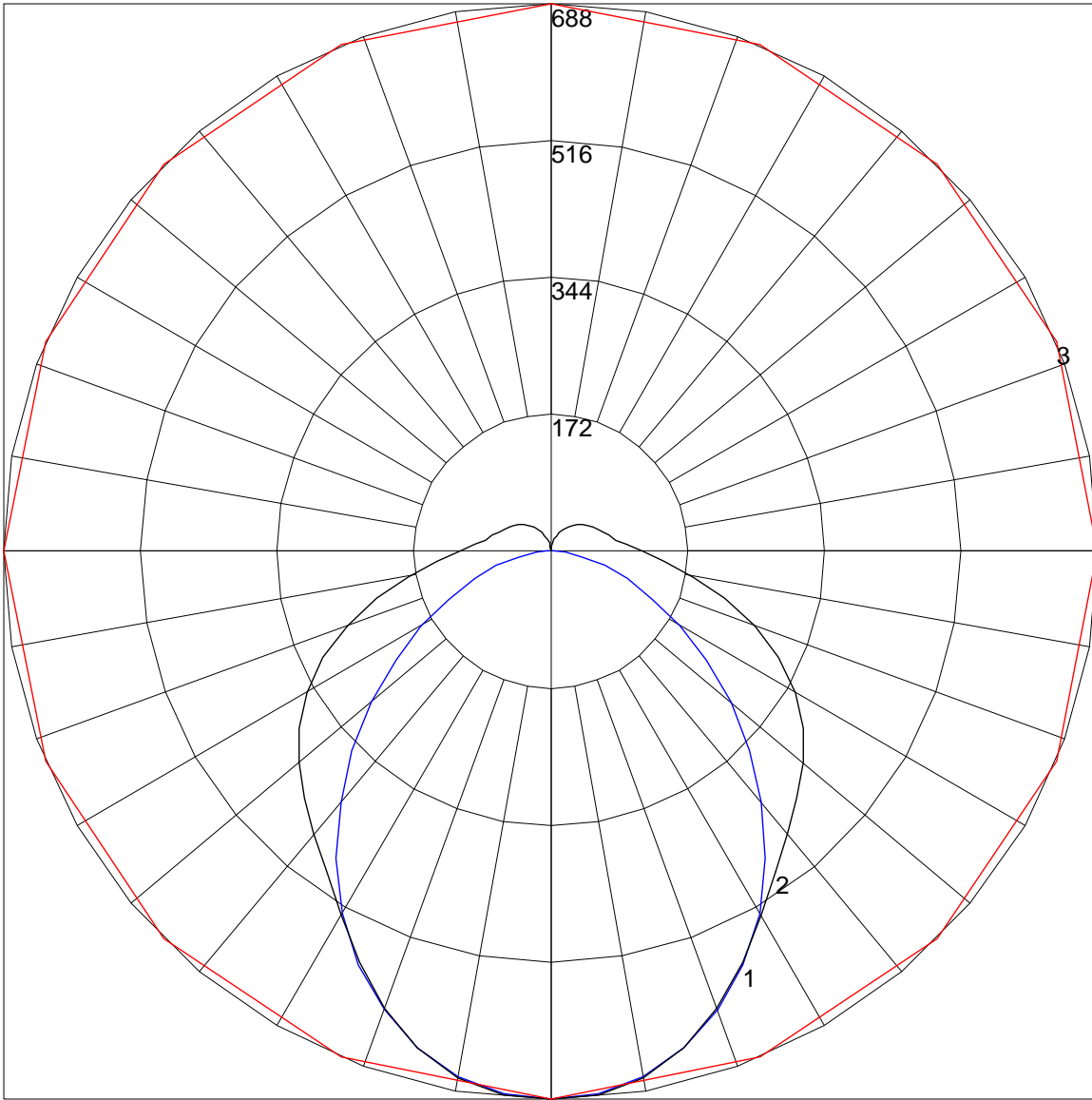
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88
1	105	99	94	90	101	96	91	87	89	86	83	83	81	78	78	76	74	71
2	95	86	79	72	91	83	76	71	77	72	67	72	68	64	68	64	61	58
3	86	75	67	60	83	73	65	59	68	61	56	64	58	54	60	55	51	49
4	79	67	57	51	76	64	56	50	60	53	48	57	51	46	53	48	44	41
5	72	59	50	44	69	58	49	43	54	47	41	51	45	40	48	43	38	36
6	67	53	44	38	64	52	43	37	49	42	36	46	40	35	44	38	34	31
7	62	48	40	34	60	47	39	33	45	37	32	42	36	31	40	34	30	28
8	58	44	36	30	56	43	35	29	41	34	29	39	32	28	37	31	27	25
9	54	41	32	27	52	40	32	27	38	31	26	36	29	25	34	28	24	22
10	51	37	30	24	49	37	29	24	35	28	23	33	27	23	32	26	22	20

POLAR GRAPH



Maximum Candela = 688.07 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.)