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# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L101601208.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] L101601208  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 10/18/2016  
 [MANUFAC] BARTCO LIGHTING  
 [LUMCAT] BSS750-4-35-SM-FW  
 [LUMINAIRE] LED 3" SQUARE CORNER MOUNT FIXTURE  
 [BALLASTCAT] PHILIPS ADVANCE XI040C110V054BST1  
 [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, 31.99W  
 [TEST PROCEDURE] IESNA:LM-79-08

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3604
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	31.99
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.76
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.25 ft
Luminous Width (90-270)	3.69 ft
Luminous Height	0.25 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7815	6915	6757
55	7899	6463	5865
65	8246	6235	4939
75	8662	6160	3957
85	8949	6228	2561

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
<b>0</b>	809.94	809.94	809.94	809.94	809.94	809.94	809.94	809.94	809.94
<b>5</b>	875.95	859.67	848.93	816.55	802.11	783.32	780.05	762.26	771.41
<b>10</b>	919.07	900.62	872.68	822.17	785.67	752.28	736.84	709.48	715.36
<b>15</b>	949.11	928.05	883.00	815.29	758.06	712.42	684.73	649.49	649.91
<b>20</b>	966.56	942.23	880.31	796.16	719.30	665.52	628.69	582.88	588.33
<b>25</b>	972.44	944.75	865.80	766.79	673.24	613.00	571.63	521.37	523.39
<b>30</b>	970.09	937.45	841.72	724.50	621.55	557.03	509.04	460.29	457.61
<b>35</b>	963.04	923.61	810.00	678.78	561.56	499.48	452.41	404.08	399.21
<b>40</b>	954.65	906.99	774.09	626.34	500.15	441.75	396.36	334.44	348.20
<b>45</b>	948.11	889.96	736.17	572.64	437.64	385.03	344.93	302.05	299.37
<b>50</b>	944.75	874.86	698.33	514.24	373.29	332.34	292.82	258.17	252.55
<b>55</b>	943.74	861.77	660.90	461.55	316.48	279.73	248.10	214.71	212.44
<b>60</b>	943.41	850.19	626.42	409.53	259.01	230.23	205.31	177.20	178.04
<b>65</b>	940.05	837.19	592.02	359.11	205.06	183.75	164.79	143.64	142.97
<b>70</b>	929.14	820.57	556.87	313.55	155.14	139.45	128.04	110.92	112.10
<b>75</b>	910.01	797.58	522.13	272.35	110.08	100.10	95.31	81.64	85.41
<b>80</b>	878.13	765.78	487.48	232.75	71.91	65.53	63.43	54.37	57.89
<b>85</b>	831.65	725.76	448.38	197.84	33.98	32.55	34.90	28.70	32.89
<b>90</b>	773.42	677.77	411.21	167.14	6.54	5.62	10.49	13.84	15.10
<b>95</b>	729.62	634.39	393.59	162.69	3.10	4.62	9.65	13.59	15.10
<b>100</b>	674.75	594.37	372.11	157.99	3.94	4.45	9.57	13.51	15.10
<b>105</b>	616.18	547.47	347.69	151.87	4.95	4.20	9.40	13.34	14.94
<b>110</b>	554.77	499.14	323.78	144.48	6.13	3.86	9.15	13.01	14.60
<b>115</b>	497.38	445.36	295.93	136.26	6.96	4.70	8.73	12.50	14.10
<b>120</b>	435.46	395.94	267.15	127.53	7.55	5.71	8.06	11.66	13.26
<b>125</b>	380.75	350.21	239.80	116.63	8.22	6.04	7.22	10.66	12.25
<b>130</b>	332.76	305.58	212.86	103.03	8.81	6.54	7.80	9.31	10.91
<b>135</b>	286.78	265.30	181.23	91.29	9.31	7.22	9.40	8.56	9.23
<b>140</b>	245.17	228.38	152.79	80.21	9.65	7.64	9.31	11.08	9.57
<b>145</b>	207.24	194.24	127.87	69.30	9.98	8.47	9.31	10.66	11.91
<b>150</b>	172.67	159.84	107.56	59.49	10.82	9.23	9.90	10.32	11.75
<b>155</b>	140.79	125.69	90.11	52.52	11.50	10.24	10.32	10.57	11.41
<b>160</b>	111.42	96.15	71.32	44.89	12.42	10.91	11.16	10.82	12.08
<b>165</b>	83.74	72.32	54.12	37.84	13.34	11.41	11.83	11.33	11.75
<b>170</b>	57.89	48.66	39.77	31.04	14.18	11.91	12.33	11.58	8.73
<b>175</b>	32.05	29.20	27.27	22.74	14.77	12.25	12.25	12.17	9.06
<b>180</b>	13.05	13.05	13.05	13.05	13.05	13.05	13.05	13.05	13.05

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	296.48	N.A.	8.20
0-30	624.94	N.A.	17.30
0-40	1017.04	N.A.	28.20
0-60	1837.68	N.A.	51.00
0-80	2540.56	N.A.	70.50
0-90	2805.24	N.A.	77.80
10-90	2728.32	N.A.	75.70
20-40	720.56	N.A.	20.00
20-50	1135.1	N.A.	31.50
40-70	1196.16	N.A.	33.20
60-80	702.88	N.A.	19.50
70-80	327.36	N.A.	9.10
80-90	264.68	N.A.	7.30
90-110	401.77	N.A.	11.10
90-120	546.61	N.A.	15.20
90-130	651.78	N.A.	18.10
90-150	764.70	N.A.	21.20
90-180	798.71	N.A.	22.20
110-180	396.94	N.A.	11.00
0-180	3603.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	76.93
10-20	219.55
20-30	328.46
30-40	392.10
40-50	414.53
50-60	406.10
60-70	375.53
70-80	327.36
80-90	264.68
90-100	217.41
100-110	184.36
110-120	144.84
120-130	105.17
130-140	70.22
140-150	42.70
150-160	22.65
160-170	9.40
170-180	1.96

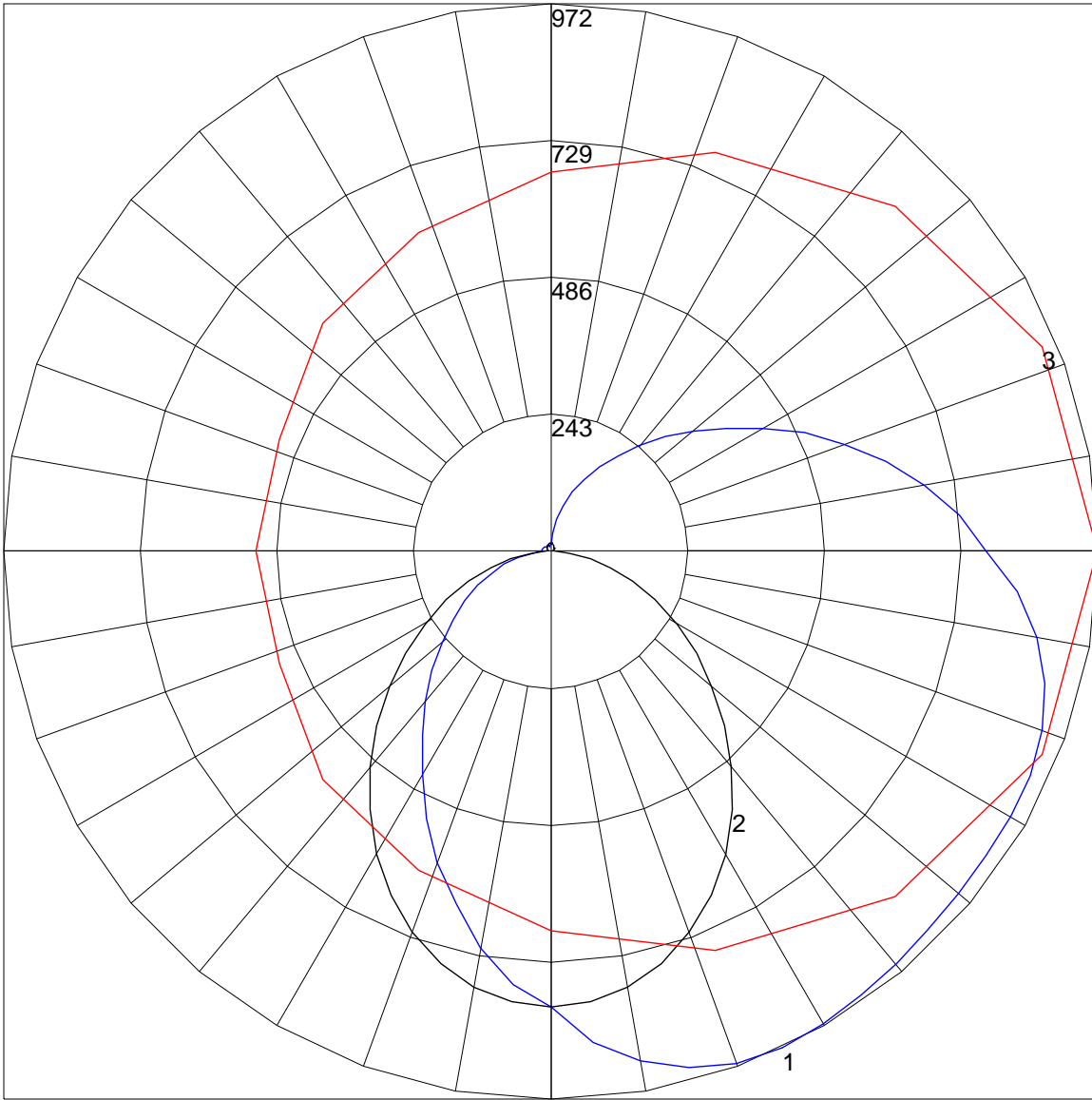
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	114	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	101	95	90	85	85	96	90	86	81	82	78	75	74	71	69	67	65	63	59
2	91	81	74	67	67	86	78	71	65	70	65	60	64	59	55	57	54	51	47
3	82	71	62	55	55	78	67	59	53	61	55	49	55	50	45	50	46	42	39
4	75	62	53	46	46	71	59	51	44	54	47	41	49	43	38	44	40	36	33
5	69	55	46	39	39	65	53	44	38	48	41	35	44	38	33	40	35	31	28
6	63	50	40	34	34	60	47	39	33	43	36	31	40	33	29	36	31	27	24
7	59	45	36	30	30	55	43	35	29	39	32	27	36	30	25	33	28	24	21
8	54	41	32	26	26	52	39	31	25	36	29	24	33	27	23	30	25	21	19
9	51	37	29	23	23	48	36	28	23	33	26	22	30	24	20	28	23	19	17
10	48	34	26	21	21	45	33	26	21	30	24	19	28	22	18	26	21	17	15

POLAR GRAPH



Maximum Candela = 972.44 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 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 (25) (Through Max. Cd.)