



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

# Photometric Test Report

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L021800601.IES**

## DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L021800601  
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)  
 [ISSUEDATE] 2/7/2018  
 [MANUFAC] Bartco Lighting, Inc.  
 [LUMCAT] BSS420-T1-44-35-R-F2  
 [LUMINAIRE] 2" aperture recessed LED luminaire w/drop lens  
 [BALLASTCAT] PHILIPS ADVANCE XI040C110V054BST1  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [INPUT] 120VAC, 29.16W  
 [TEST PROCEDURE] IESNA:LM-79-08

## CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2349
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	29.16
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.08 ft

## LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10114	8266	7770
55	8534	7034	6719
65	8244	6218	5900
75	5916	5360	5084
85	4668	4668	4400

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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>	884	884	884	884	884
<b>5</b>	874	876	879	879	880
<b>10</b>	852	856	858	856	856
<b>15</b>	816	821	822	817	815
<b>20</b>	769	775	773	766	762
<b>25</b>	711	719	715	707	703
<b>30</b>	647	658	654	647	644
<b>35</b>	578	592	592	588	587
<b>40</b>	506	524	529	532	533
<b>45</b>	433	455	467	477	479
<b>50</b>	363	390	410	424	429
<b>55</b>	299	330	358	377	382
<b>60</b>	246	281	315	336	341
<b>65</b>	216	231	272	292	297
<b>70</b>	142	185	227	250	254
<b>75</b>	98	144	189	211	215
<b>80</b>	61	108	153	175	179
<b>85</b>	30	76	120	141	145
<b>90</b>	0	49	88	109	113
<b>95</b>	0	33	63	83	87
<b>100</b>	0	17	48	62	68
<b>105</b>	0	0	24	47	51
<b>110</b>	0	0	9	30	34
<b>115</b>	0	0	9	11	18
<b>120</b>	0	0	8	9	10
<b>125</b>	0	0	0	8	9
<b>130</b>	0	0	0	8	8
<b>135</b>	0	0	0	0	0
<b>140</b>	0	0	0	0	0
<b>145</b>	0	0	0	0	0
<b>150</b>	0	0	0	0	0
<b>155</b>	0	0	0	0	0
<b>160</b>	0	0	0	0	0
<b>165</b>	0	0	0	0	0
<b>170</b>	0	0	0	0	0
<b>175</b>	0	0	0	0	0
<b>180</b>	0	0	0	0	0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	313.37	N.A.	13.30
0-30	641.30	N.A.	27.30
0-40	1009.85	N.A.	43.00
0-60	1685.17	N.A.	71.80
0-80	2130.58	N.A.	90.70
0-90	2246.95	N.A.	95.70
10-90	2163.87	N.A.	92.10
20-40	696.48	N.A.	29.70
20-50	1055.3	N.A.	44.90
40-70	934.71	N.A.	39.80
60-80	445.41	N.A.	19.00
70-80	186.02	N.A.	7.90
80-90	116.37	N.A.	5.00
90-110	89.18	N.A.	3.80
90-120	97.66	N.A.	4.20
90-130	100.98	N.A.	4.30
90-150	101.59	N.A.	4.30
90-180	101.59	N.A.	4.30
110-180	12.41	N.A.	0.50
0-180	2348.54	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	83.08
10-20	230.29
20-30	327.93
30-40	368.55
40-50	358.83
50-60	316.50
60-70	259.39
70-80	186.02
80-90	116.37
90-100	61.99
100-110	27.19
110-120	8.48
120-130	3.33
130-140	0.61
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

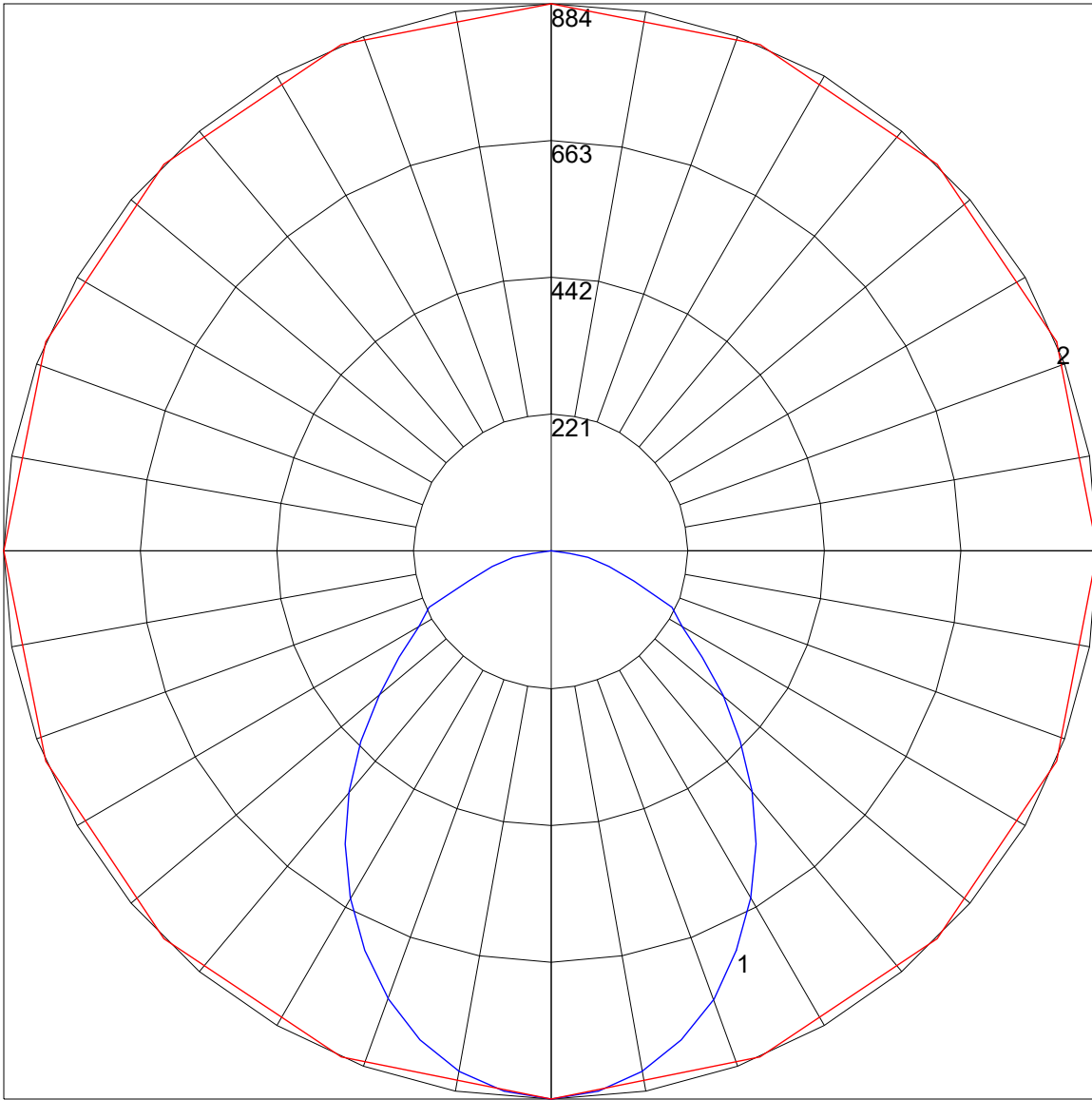
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	96
1	106	101	96	92	103	98	94	90	93	90	87	89	86	83	84	82	80	77
2	97	88	81	75	94	86	79	74	81	76	71	77	73	69	74	70	67	64
3	88	77	69	62	85	75	68	61	72	65	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	52	64	57	51	61	55	50	58	53	49	46
5	74	62	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	40
6	69	56	47	40	67	54	46	40	52	45	39	50	43	38	48	42	38	36
7	64	51	42	36	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	43	34	29	54	42	34	29	40	33	28	39	32	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 884 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.)