



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

Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L021806501.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L021806501
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUEDATE] 3/1/2018
[MANUFAC] Bartco Lighting, Inc.
[LUMCAT] BFZ100-T-51-45I-45I-35-NA
[LUMINAIRE] 51" space projecting LED luminaire
[BALLASTCAT] ACELECTRONICS AC-A60VD24H2.5 LED DRIVER
[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
[INPUT] 120VAC, 20.99W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2045
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	20.99
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.18 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9699	9821	9741
55	9032	9177	9293
65	8313	8552	8705
75	7575	7819	7957
85	6629	7030	7383

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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>
0	766.41	766.41	766.41	766.41	766.41	766.41	766.41	766.41	766.41	766.41
5	769.82	772.99	773.84	774.62	774.62	773.50	772.82	772.99	774.11	775.26
10	755.34	758.35	759.37	759.91	759.67	758.59	758.18	758.69	759.23	760.41
15	731.67	734.48	735.46	736.24	735.90	735.05	734.95	735.16	735.70	736.71
20	699.21	702.52	703.47	704.15	703.57	703.51	703.51	703.51	704.35	705.09
25	660.66	663.64	664.52	664.92	665.02	665.06	664.65	664.75	665.84	666.14
30	615.62	618.60	619.07	620.02	620.29	620.42	619.88	619.88	620.76	621.51
35	565.85	568.86	569.84	570.01	570.89	570.48	571.12	571.02	571.63	572.48
40	513.91	516.04	516.88	516.82	518.20	517.97	518.27	518.47	518.78	519.56
45	459.20	461.19	461.60	461.53	462.85	463.15	463.36	463.66	463.70	464.95
50	403.00	405.03	405.43	406.01	406.85	406.95	407.70	407.63	407.80	408.31
55	346.87	348.42	348.69	349.61	349.77	350.59	350.72	351.30	351.43	352.41
60	290.46	292.36	292.49	293.03	293.51	293.95	294.79	295.37	296.35	297.02
65	235.21	237.41	237.99	237.68	238.63	238.63	239.64	240.12	241.16	241.98
70	181.99	183.71	183.95	184.39	184.59	185.34	185.54	186.05	187.30	187.91
75	131.27	131.84	132.89	133.19	133.40	133.43	134.21	134.48	134.85	135.49
80	83.52	83.32	84.33	84.54	84.84	85.18	85.48	85.42	85.92	86.40
85	38.68	38.58	38.51	38.79	39.19	39.70	39.97	40.37	40.65	41.02
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. 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>
0	766.41	766.41	766.41	766.41	766.41	766.41	766.41	766.41	766.41
5	775.02	773.06	770.12	766.84	766.91	768.33	769.04	768.33	767.92
10	760.28	758.56	755.34	752.37	752.00	753.25	754.29	753.48	753.38
15	736.20	735.05	731.98	729.10	728.76	730.29	730.86	729.98	729.71
20	705.06	703.84	701.24	698.40	697.05	698.87	699.38	698.70	698.06
25	666.85	665.19	663.57	660.70	659.51	660.36	661.44	660.83	660.60
30	622.05	621.27	619.68	617.31	615.76	616.40	617.01	615.86	615.08
35	572.51	572.48	571.09	569.36	567.54	567.84	568.82	567.98	567.00
40	519.96	519.96	519.42	517.43	516.04	516.28	516.99	516.14	515.13
45	464.81	465.45	465.42	463.73	461.97	461.77	462.07	461.94	461.16
50	409.52	410.23	411.28	410.17	408.88	408.17	408.98	410.00	409.22
55	354.00	354.48	355.46	355.83	355.29	354.81	355.35	356.61	356.88
60	297.70	298.99	300.27	301.72	301.25	300.37	300.64	301.45	301.76
65	242.62	243.87	245.36	246.44	246.84	246.13	245.46	245.83	246.30
70	188.89	189.97	191.15	191.90	192.34	192.20	191.19	190.98	191.39
75	136.00	136.54	137.32	137.96	138.57	138.67	138.20	138.03	137.89
80	86.67	87.11	87.75	88.02	88.46	88.63	88.56	88.49	88.26
85	41.25	41.56	42.00	42.13	42.44	42.81	43.05	43.08	43.08
90	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	279.79	N.A.	13.70
0-30	585.30	N.A.	28.60
0-40	941.86	N.A.	46.10
0-60	1614.99	N.A.	79.00
0-80	1998.88	N.A.	97.80
0-90	2044.66	N.A.	100.00
10-90	1971.59	N.A.	96.40
20-40	662.07	N.A.	32.40
20-50	1019.64	N.A.	49.90
40-70	913.08	N.A.	44.70
60-80	383.90	N.A.	18.80
70-80	143.95	N.A.	7.00
80-90	45.78	N.A.	2.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2044.66	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.08
10-20	206.71
20-30	305.51
30-40	356.55
40-50	357.57
50-60	315.56
60-70	239.95
70-80	143.95
80-90	45.78
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

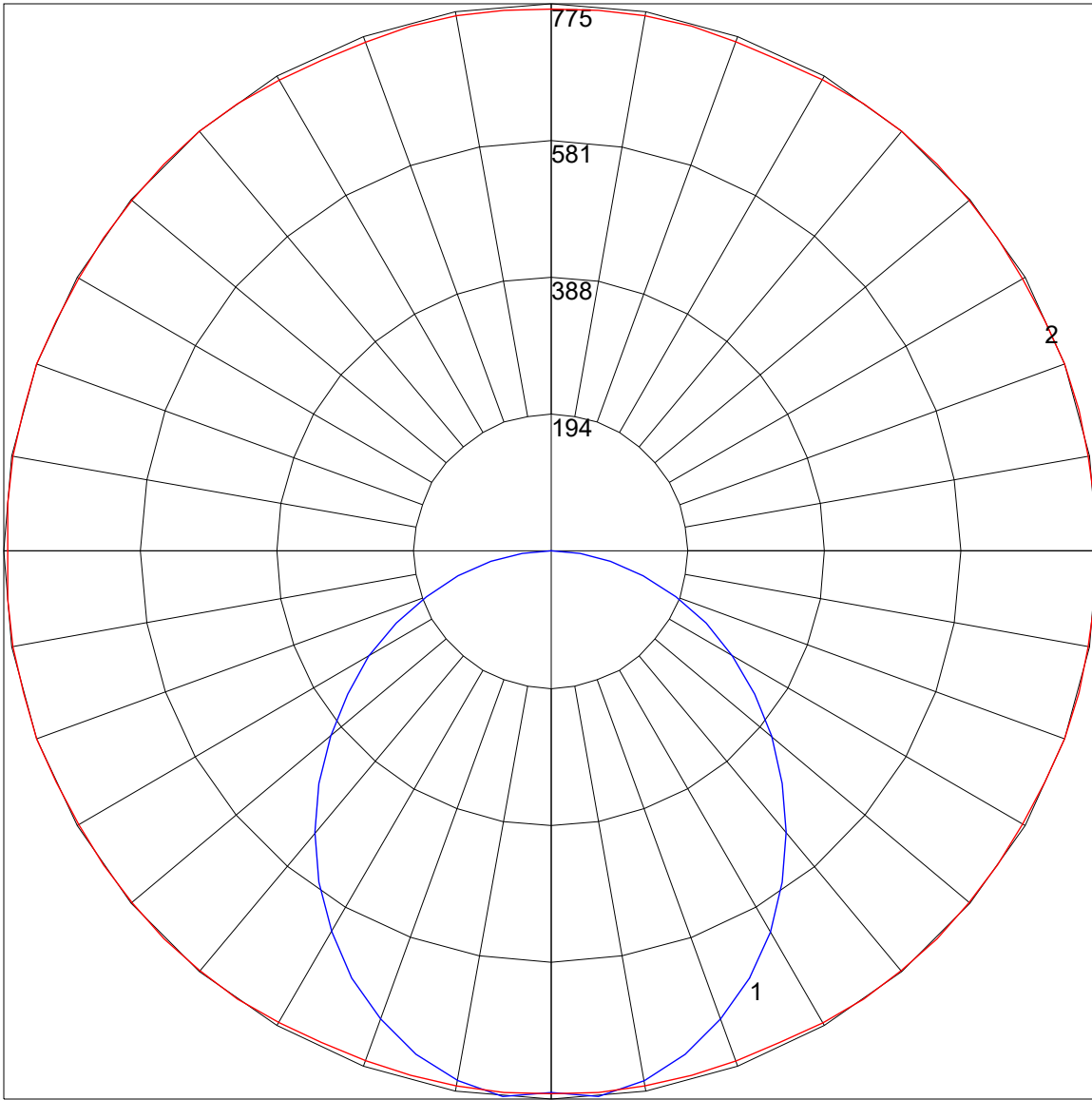
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 775.26 Located At Horizontal Angle = 45, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)