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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
B-K LIGHTING INC

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UNITED STATES

Catalog Number
AP-LED-C26-FL-12-4000K, SM-AP-LED-C26-FL-12-4000K

Order Number
12627577
Test Number
12627577.03

Test Date

2018-11-29

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White cylindrical metal housing with metal mounting plate; specular prismatic reflector and glass prismatic lens
Lamp: One (1) Luminetix CTM1C19 16-80K 2000L 35W 24V module with diffuse lens and specular reflector
Mounting: Surface – Wall
Ballast/Driver: One (1) Efore Strato RSLP070-24

Luminaire



Luminaire Characteristics
Luminous Diameter: 4.50 in.

Summary of Results

Total Luminaire Output:	1269 Lumens
Luminaire Efficacy:	32.4 lm/w
Maximum Candela:	2598 Candela

Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.0 VAC
Current:	0.3342 A
Power:	39.18 W
Power Factor:	0.977
Frequency:	60 Hz
Current THD:	15.8 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

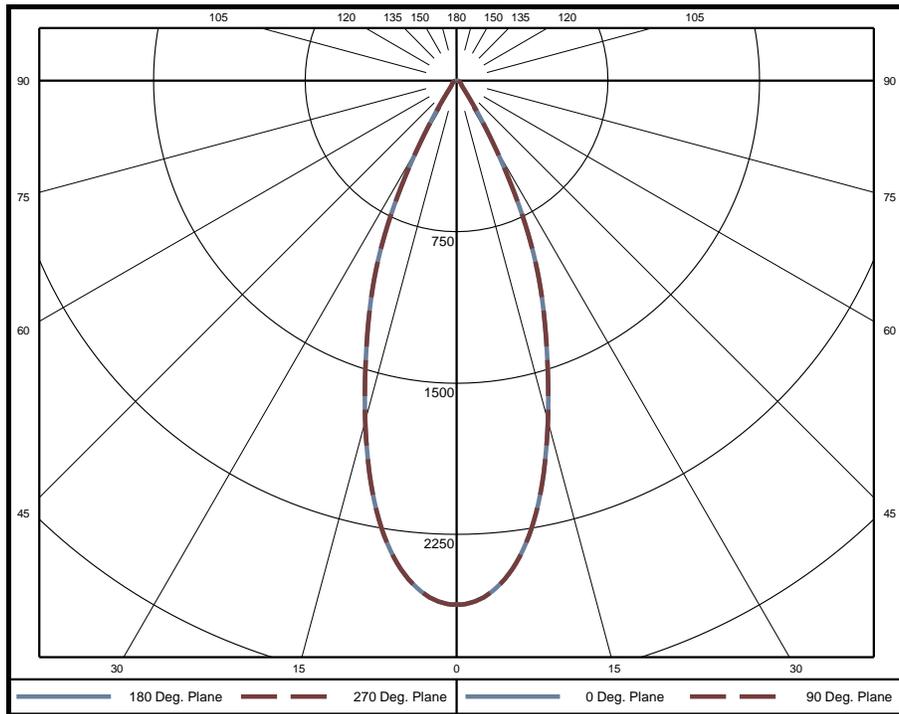
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.3342 A	39.18 W	0.977	60 Hz	15.8 %

Summary of Results

Spacing Criteria
 0-180: 0.63
 90-270: 0.63

Total Lumen Output: 1269 Lumens
Luminaire Efficacy: 32.4 lm/w
Maximum Candela: 2598 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	61.0	4.8%	60-65	10.1	0.8%	120-125	0	0.0%
5-10	168.8	13.3%	65-70	8.7	0.7%	125-130	0	0.0%
10-15	234.1	18.4%	70-75	7.2	0.6%	130-135	0	0.0%
15-20	246.2	19.4%	75-80	5.4	0.4%	135-140	0	0.0%
20-25	221.3	17.4%	80-85	3.7	0.3%	140-145	0	0.0%
25-30	149.9	11.8%	85-90	1.7	0.1%	145-150	0	0.0%
30-35	67.4	5.3%	90-95	0	0.0%	150-155	0	0.0%
35-40	28.9	2.3%	95-100	0	0.0%	155-160	0	0.0%
40-45	17.2	1.4%	100-105	0	0.0%	160-165	0	0.0%
45-50	13.6	1.1%	105-110	0	0.0%	165-170	0	0.0%
50-55	12.3	1.0%	110-115	0	0.0%	170-175	0	0.0%
55-60	11.3	0.9%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1178	92.8%
0-60	1232	97.1%
0-90	1269	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	2597	2597	2597	2597	2597	2597	2597	2597	2597	2597	2597	2597	2597	2597	2597	2597
5	2503	2503	2503	2503	2503	2503	2503	2503	2503	2503	2503	2503	2503	2503	2503	2503
10	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211	2211
15	1747	1747	1747	1747	1747	1747	1747	1747	1747	1747	1747	1747	1747	1747	1747	1747
20	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276	1276
25	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838	838
30	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376	376
35	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131
40	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
45	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
50	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
55	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
60	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
65	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
70	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
80	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
85	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Vertical Angle (Degrees)

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

	0	45	90
0	253100	253100	253100
45	5244	5244	5244
55	4474	4474	4474
65	4389	4389	4389
75	4485	4485	4485
85	5986	5986	5986

Vertical Angle (Degrees)

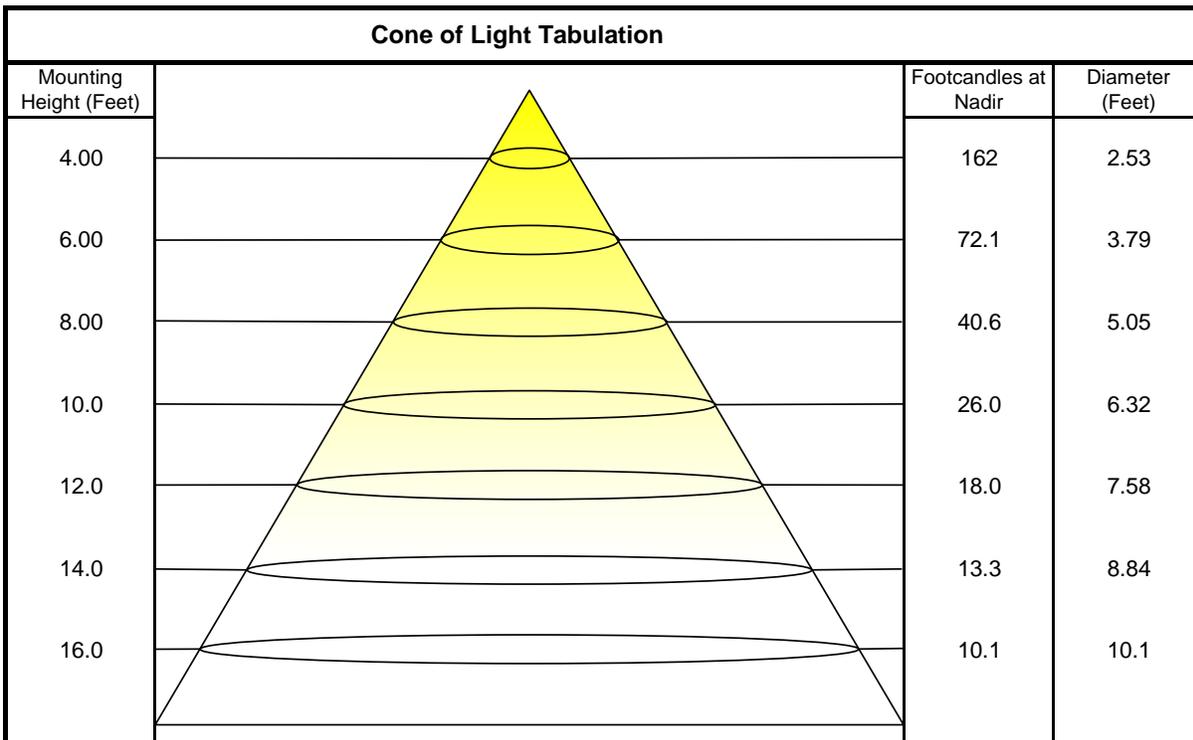


Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	93	88	84	98	91	87	83	89	85	82	87	84	81	86	83	80	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	75	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65
9	81	73	67	64	80	72	67	64	71	67	64	71	66	63	70	66	63	62
10	78	70	65	61	77	69	64	61	69	64	61	68	64	61	67	63	61	59

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2597 Candela
Central Cone Intensity:	2565 Candela
Beam Flux:	697.8 Lumens
Beam Angle (0-180):	39.5 Degrees
Beam Angle (90-270):	39.5 Degrees
Field Angle (0-180):	63.5 Degrees
Field Angle (90-270):	63.5 Degrees





ISOFootcandle Plot

Mounting Height - 8 Feet

