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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

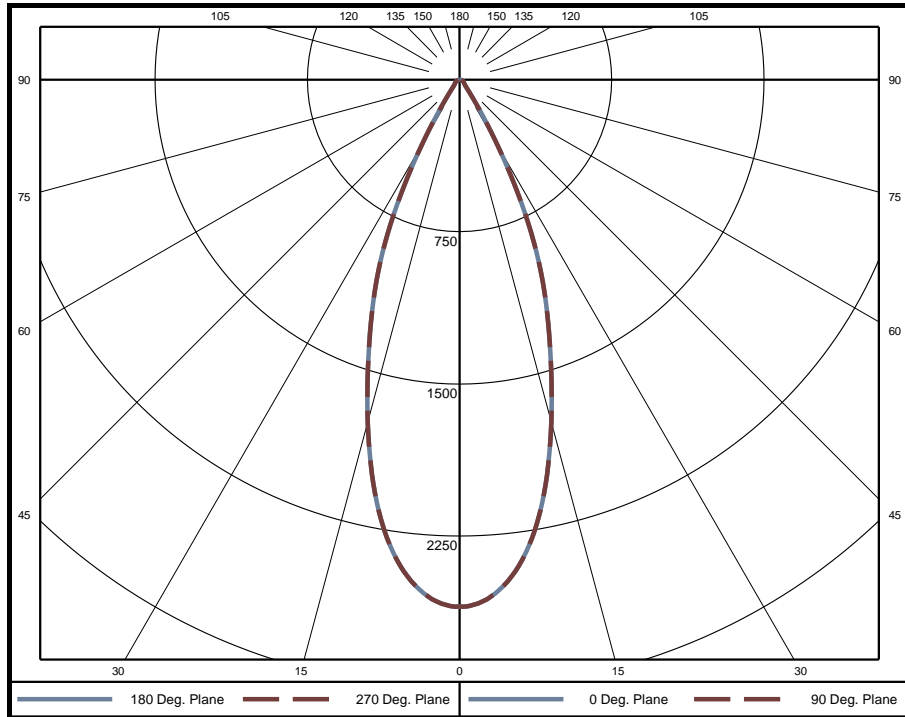
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.0 VAC	0.3342 A	39.18 W	0.977	60 Hz	15.8 %

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)

Vertical 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
	5	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
	15	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
	25	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
	35	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
	45	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
	55	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
	65	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
	75	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
	85	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
	95	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
	105	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
	115	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
	125	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
	135	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
	145	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
	155	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
	165	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
	175	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

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	253100	253100
	45	5244	5244
	55	4474	4474
	65	4389	4389
	75	4485	4485
	85	5986	5986



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

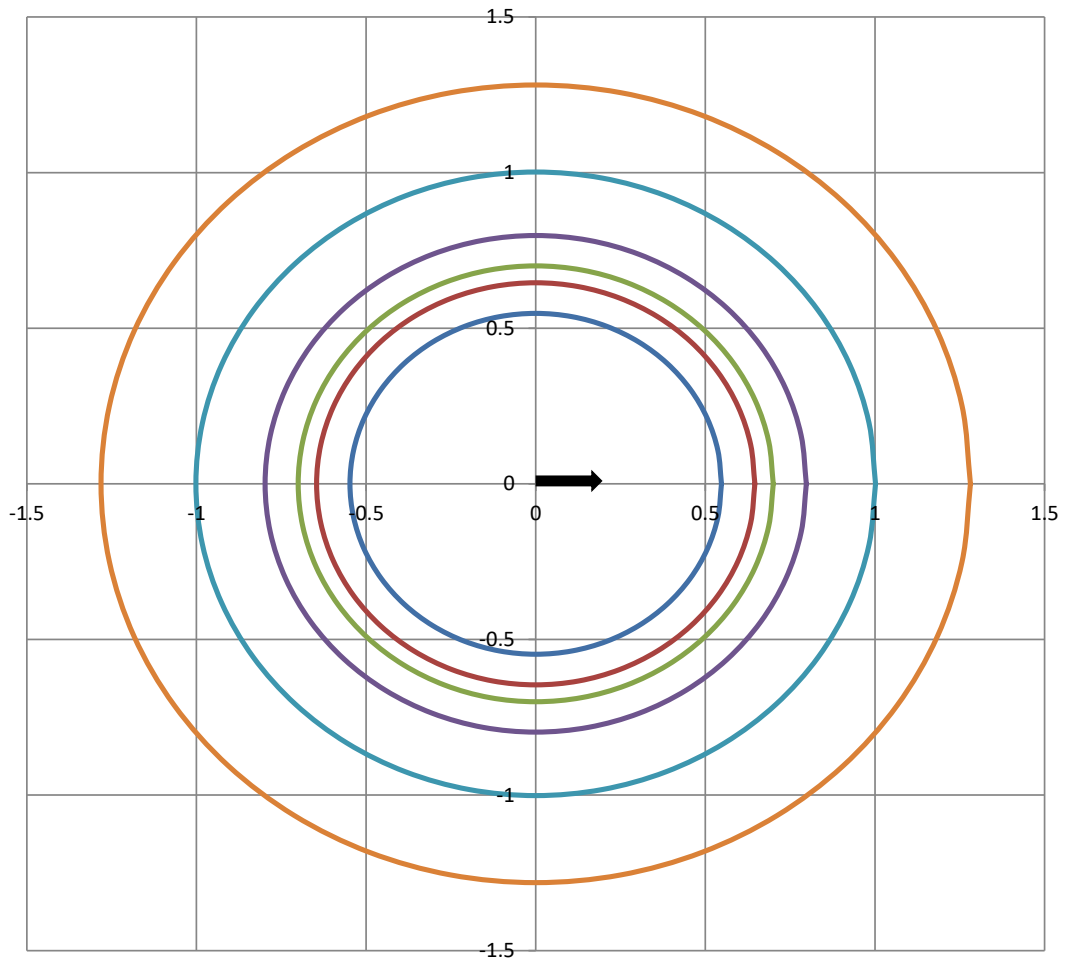
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	2597 Candela
Central Cone Intensity:	2565 Candela
Beam Flux:	697.8 Lumens
Beam Angle (0-180):	39.5 Degrees
Beam Angle (90-270):	39.5 Degrees
Field Angle (0-180):	63.5 Degrees
Field Angle (90-270):	63.5 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		162	2.53
6.00		72.1	3.79
8.00		40.6	5.05
10.0		26.0	6.32
12.0		18.0	7.58
14.0		13.3	8.84
16.0		10.1	10.1



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

