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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-SP-12-4000K, SM-AP-LED-C26-SP-12-4000K

Order Number

12627577

Test Number

12627577.01

Test Date

2018-11-30

Prepared By

Austin Duff, Technician

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:	1345 Lumens
Luminaire Efficacy:	33.6 lm/w
Maximum Candela:	9393 Candela

Test Conditions

Test Temperature:	24.5 °C
Voltage:	120.0 VAC
Current:	0.3410 A
Power:	40.06 W
Power Factor:	0.979
Frequency:	60 Hz
Current THD:	15.4 %

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



Distribution - Goniophotometer

Distribution Test Conditions

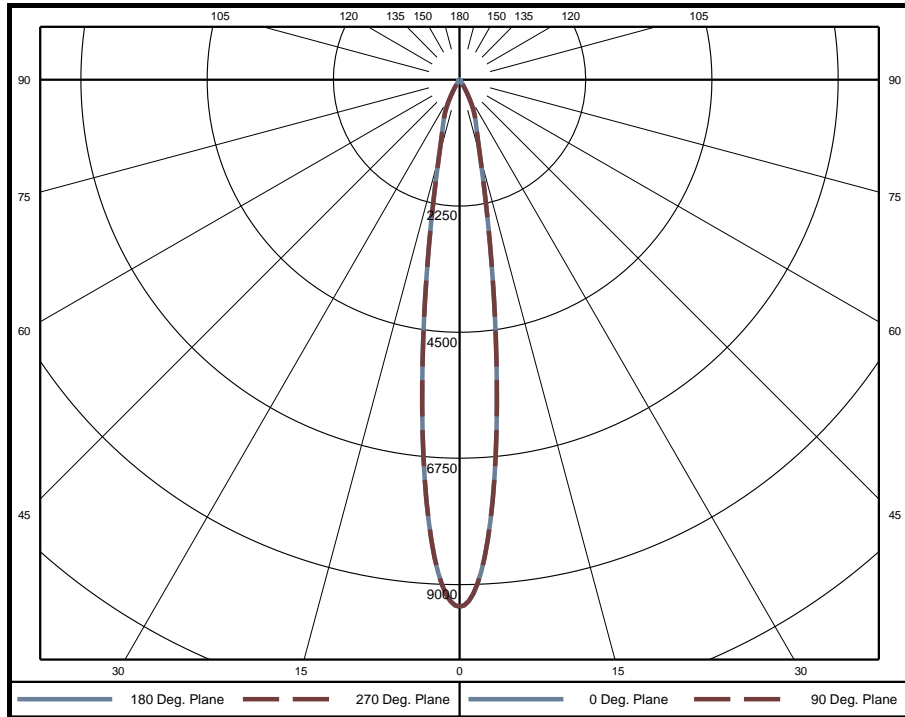
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.3410 A	40.06 W	0.979	60 Hz	15.4 %

Summary of Results

Spacing Criteria
0-180: 0.27
90-270: 0.27

Total Lumen Output: 1345 Lumens
Luminaire Efficacy: 33.6 lm/w
Maximum Candela: 9393 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	197.1	14.7%	60-65	7.7	0.6%	120-125	0	0.0%
5-10	349.5	26.0%	65-70	6.7	0.5%	125-130	0	0.0%
10-15	250.0	18.6%	70-75	5.6	0.4%	130-135	0	0.0%
15-20	177.2	13.2%	75-80	4.2	0.3%	135-140	0	0.0%
20-25	149.0	11.1%	80-85	2.9	0.2%	140-145	0	0.0%
25-30	96.6	7.2%	85-90	1.5	0.1%	145-150	0	0.0%
30-35	36.2	2.7%	90-95	0.3	0.0%	150-155	0	0.0%
35-40	15.7	1.2%	95-100	0.2	0.0%	155-160	0	0.0%
40-45	13.4	1.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	12.2	0.9%	105-110	0	0.0%	165-170	0	0.0%
50-55	10.2	0.8%	110-115	0	0.0%	170-175	0	0.0%
55-60	8.7	0.6%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1271	94.5%
0-60	1316	97.8%
0-90	1344	100.0%
90-180	1	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	9393	9393	9393	9393	9393	9393	9393	9393	9393	9393	9393	9393	9393	9393	9393	9393
5	7134	7134	7134	7134	7134	7134	7134	7134	7134	7134	7134	7134	7134	7134	7134	7134
10	3256	3256	3256	3256	3256	3256	3256	3256	3256	3256	3256	3256	3256	3256	3256	3256
15	1417	1417	1417	1417	1417	1417	1417	1417	1417	1417	1417	1417	1417	1417	1417	1417
20	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863
25	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562
30	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222
35	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
40	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
45	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
50	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
55	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
60	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
65	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
70	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
75	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
80	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
85	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
90	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
95	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
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

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)

	0	45	90
0	915400	915400	915400
45	4610	4610	4610
55	3542	3542	3542
65	3357	3357	3357
75	3532	3532	3532
85	4740	4740	4740



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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	107	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	93	96	93	91	93	91	90	88
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	88	87	85
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	86	83	88	85	82	87	84	82	86	83	81	80
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74
10	87	80	76	73	86	80	76	73	79	76	73	78	75	73	78	75	73	72

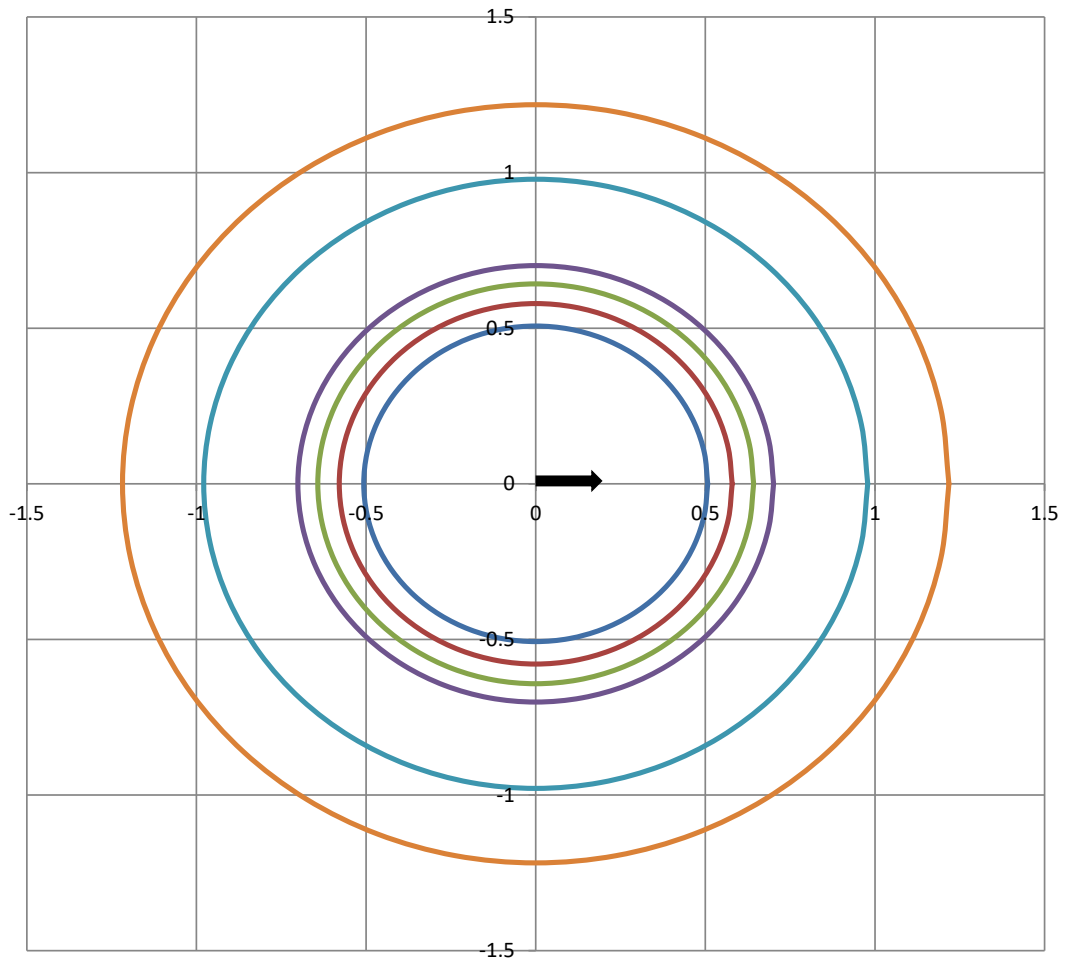
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	9393 Candela
Central Cone Intensity:	8575 Candela
Beam Flux:	408.5 Lumens
Beam Angle (0-180):	15.9 Degrees
Beam Angle (90-270):	15.9 Degrees
Field Angle (0-180):	37.8 Degrees
Field Angle (90-270):	37.8 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		587	1.09
6.00		261	1.64
8.00		147	2.18
10.0		93.9	2.73
12.0		65.2	3.27
14.0		47.9	3.82
16.0		36.7	4.37



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

