



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## Indoor Distribution Test Report

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

Prepared For  
**B-K LIGHTING INC**

DANIEL CARREJO  
40429 BRICKYARD DR.  
MADERA, CA 93636-9515  
UNITED STATES

Catalog Number  
**AP-LED-C26-MFL-12-4000K, SM-AP-LED-C26-MFL-12-4000K**

Order Number

12498468

Test Number

12498468.06B

Revised:

2018-11-27

Test Date

2018-11-16

Prepared By

William Escobar, Technician

Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.  
This report must not be used by the client to claim product certification, approval, or endorsement by  
NVLAP, NIST, or any agency of the Federal Government.



**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:	1292 Lumens
Luminaire Efficacy:	32.8 lm/w
Maximum Candela:	3408 Candela

**Test Conditions**

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.3357 A
Power:	39.35 W
Power Factor:	0.977
Frequency:	60 Hz
Current THD:	16.1 %

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



## Distribution - Goniophotometer

### Distribution Test Conditions

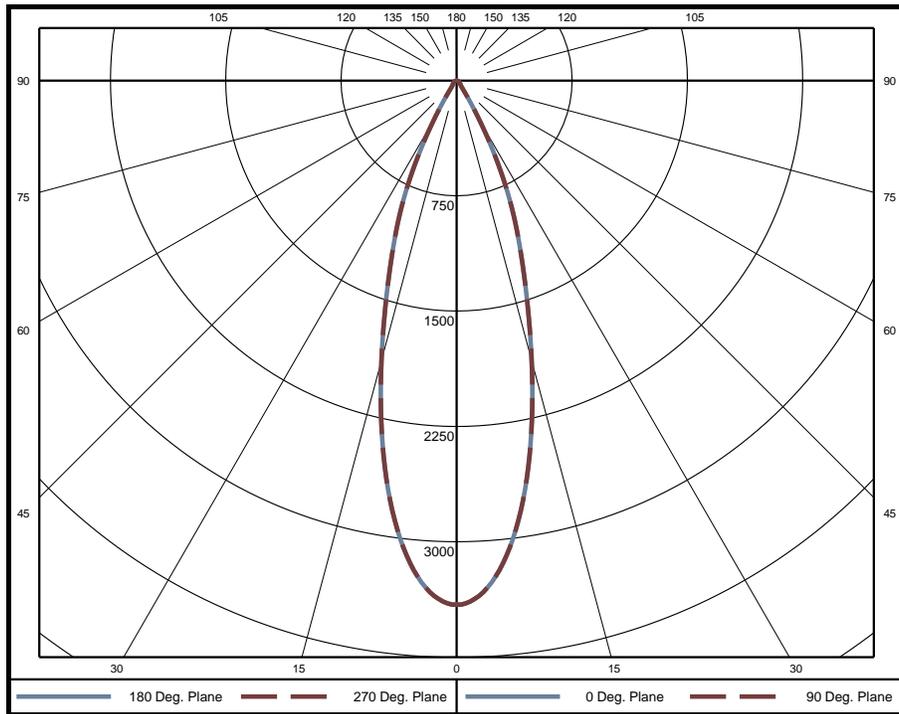
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.3357 A	39.35 W	0.977	60 Hz	16.1 %

### Summary of Results

**Spacing Criteria**  
 0-180: 0.53  
 90-270: 0.53

**Total Lumen Output:** 1292 Lumens  
**Luminaire Efficacy:** 32.8 lm/w  
**Maximum Candela:** 3408 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	79.0	6.1%	60-65	8.9	0.7%	120-125	0	0.0%
5-10	207.9	16.1%	65-70	7.9	0.6%	125-130	0	0.0%
10-15	265.3	20.5%	70-75	6.7	0.5%	130-135	0	0.0%
15-20	252.4	19.5%	75-80	5.1	0.4%	135-140	0	0.0%
20-25	206.7	16.0%	80-85	3.6	0.3%	140-145	0	0.0%
25-30	127.9	9.9%	85-90	1.8	0.1%	145-150	0	0.0%
30-35	50.1	3.9%	90-95	0	0.0%	150-155	0	0.0%
35-40	20.1	1.6%	95-100	0	0.0%	155-160	0	0.0%
40-45	14.7	1.1%	100-105	0	0.0%	160-165	0	0.0%
45-50	13.0	1.0%	105-110	0	0.0%	165-170	0	0.0%
50-55	11.3	0.9%	110-115	0	0.0%	170-175	0	0.0%
55-60	9.9	0.8%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	1209	93.6%
0-60	1258	97.4%
0-90	1292	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	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408	3408
5	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196	3196
10	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628	2628
15	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885	1885
20	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242	1242
25	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
30	299	299	299	299	299	299	299	299	299	299	299	299	299	299	299	299
35	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
40	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
45	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
50	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
55	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
60	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
65	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
70	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
75	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
80	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
85	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
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/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

	0	45	90
0	332100	332100	332100
45	4908	4908	4908
55	3978	3978	3978
65	3922	3922	3922
75	4220	4220	4220
85	6158	6158	6158

Vertical Angle (Degrees)

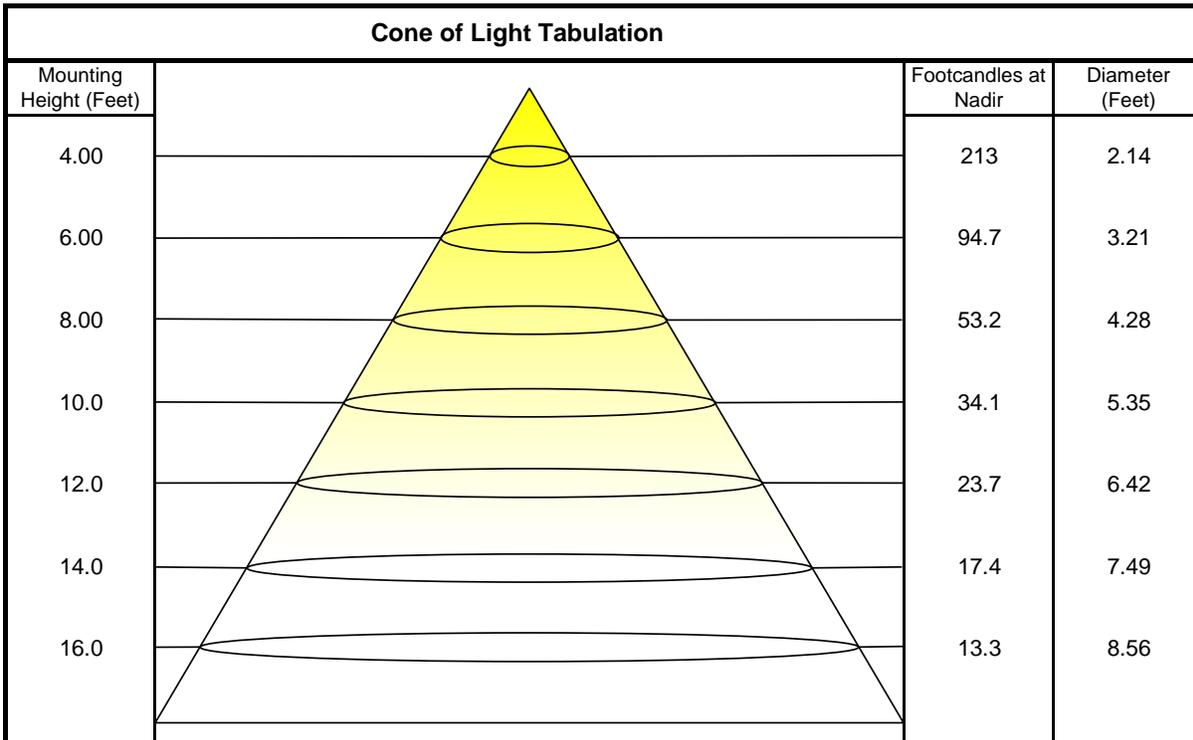


### Coefficients of Utilization - Zonal Cavity Method

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	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85
4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	97	90	85	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	77	92	85	80	77	83	79	76	82	78	76	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
8	86	78	73	70	85	78	73	70	77	73	70	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	67	73	69	66	65
10	81	73	68	65	80	72	68	64	71	67	64	71	67	64	70	67	64	63

Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	3408 Candela
Central Cone Intensity:	3333 Candela
Beam Flux:	618.0 Lumens
Beam Angle (0-180):	32.5 Degrees
Beam Angle (90-270):	32.5 Degrees
Field Angle (0-180):	58.9 Degrees
Field Angle (90-270):	58.9 Degrees





### ISOFootcandle Plot

Mounting Height - 8 Feet

