



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
MA-LED-C26-SP-12-4000K

Order Number
12496749

Test Number
12496749.04A

Revised:
2018-11-19
Test Date

2018-11-13

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 specular prismatic reflector and glass prismatic lens above and below

Lamp: Two (2) Lumenetix CTM1C19 16-80K 2000L 35W 24V Module with diffuse lens and specular reflector. One (1) above and one (1) below.

Mounting: Pendant

Ballast/Driver: Two (2) EFORE RSLP070-24

Luminaire



Luminaire Characteristics

Luminous Diameter: 4.50 in.
Luminous Height: 14.500 in.

Summary of Results

Total Luminaire Output:	2580 Lumens
Luminaire Efficacy:	31.1 lm/w
Maximum Candela:	9608 Candela

Test Conditions

Test Temperature:	25.7 °C
Voltage:	120.1 VAC
Current:	0.7036 A
Power:	82.88 W
Power Factor:	0.981
Frequency:	60 Hz
Current THD:	14.2 %

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



Distribution - Goniophotometer

Distribution Test Conditions

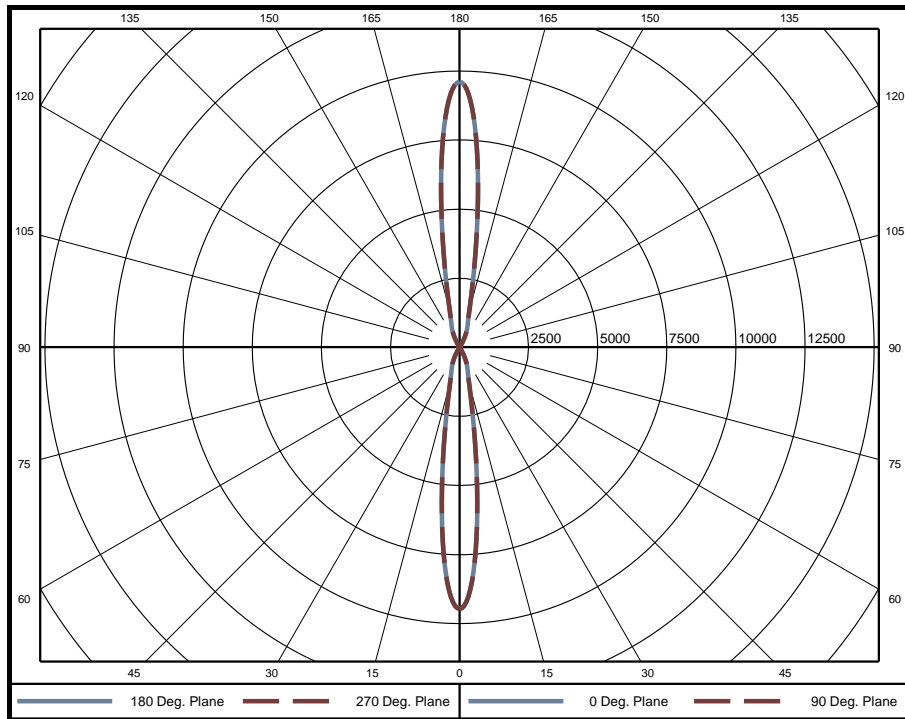
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.7 °C	120.1 VAC	0.7036 A	82.88 W	0.981	60 Hz	14.2 %

Summary of Results

Spacing Criteria
 0-180: 0.26
 90-270: 0.26

Total Lumen Output: 2580 Lumens
Luminaire Efficacy: 31.1 lm/w
Maximum Candela: 9608 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	195.8	7.6%	60-65	8.3	0.3%	120-125	8.7	0.3%
5-10	331.9	12.9%	65-70	7.2	0.3%	125-130	10.0	0.4%
10-15	229.0	8.9%	70-75	5.8	0.2%	130-135	11.9	0.5%
15-20	168.1	6.5%	75-80	4.2	0.2%	135-140	13.2	0.5%
20-25	143.0	5.5%	80-85	2.9	0.1%	140-145	14.6	0.6%
25-30	86.3	3.3%	85-90	1.2	0.0%	145-150	30.8	1.2%
30-35	29.4	1.1%	90-95	1.6	0.1%	150-155	88.0	3.4%
35-40	13.5	0.5%	95-100	3.3	0.1%	155-160	144.6	5.6%
40-45	11.5	0.4%	100-105	4.7	0.2%	160-165	171.5	6.6%
45-50	10.7	0.4%	105-110	6.0	0.2%	165-170	240.3	9.3%
50-55	10.1	0.4%	110-115	7.0	0.3%	170-175	347.5	13.5%
55-60	9.3	0.4%	115-120	7.9	0.3%	175-180	200.0	7.8%

Zone	Lumens	% of Luminaire
0-40	1197	46.4%
0-60	1239	48.0%
0-90	1268	49.2%
90-180	1312	50.8%



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	9456	9456	9456	9456	9456	9456	9456	9456	9456	9456	9456	9456	9456	9456	9456
	5	6979	6979	6979	6979	6979	6979	6979	6979	6979	6979	6979	6979	6979	6979	6979
	10	3002	3002	3002	3002	3002	3002	3002	3002	3002	3002	3002	3002	3002	3002	3002
	15	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312
	20	831	831	831	831	831	831	831	831	831	831	831	831	831	831	831
	25	528	528	528	528	528	528	528	528	528	528	528	528	528	528	528
	30	185	185	185	185	185	185	185	185	185	185	185	185	185	185	185
	35	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
	40	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
	45	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
	50	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	55	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	60	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	65	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	70	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	75	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	80	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	85	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
	95	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
	100	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	105	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	110	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	115	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	120	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
	125	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
	130	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
	135	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
	140	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
	145	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
	150	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192
	155	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533
	160	844	844	844	844	844	844	844	844	844	844	844	844	844	844	844
	165	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354	1354
	170	3177	3177	3177	3177	3177	3177	3177	3177	3177	3177	3177	3177	3177	3177	3177
	175	7191	7191	7191	7191	7191	7191	7191	7191	7191	7191	7191	7191	7191	7191	7191
	180	9608	9608	9608	9608	9608	9608	9608	9608	9608	9608	9608	9608	9608	9608	9608

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	921500	921500
	45	3943	3943
	55	3671	3671
	65	3613	3613
	75	3563	3563
	85	4590	4590



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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	100	97	94	92	93	90	88	86	77	75	74	65	64	63	53	53	52	47
2	94	89	85	81	87	83	79	76	72	69	67	61	59	58	51	50	50	45
3	89	82	77	73	83	77	72	69	67	64	61	58	56	54	49	48	47	43
4	84	76	71	66	78	72	67	63	63	60	57	55	53	51	48	46	45	42
5	80	71	65	61	74	67	62	58	60	56	53	53	50	48	46	45	43	41
6	76	67	61	57	71	63	58	55	57	53	50	51	48	46	45	43	42	39
7	72	63	57	53	68	60	55	51	54	50	48	49	46	44	44	42	41	38
8	69	60	54	50	65	57	52	49	52	48	45	47	44	42	42	41	39	37
9	66	57	51	48	62	54	50	46	50	46	43	45	43	41	41	39	38	36
10	63	54	49	45	60	52	47	44	48	44	42	44	41	39	40	38	37	36

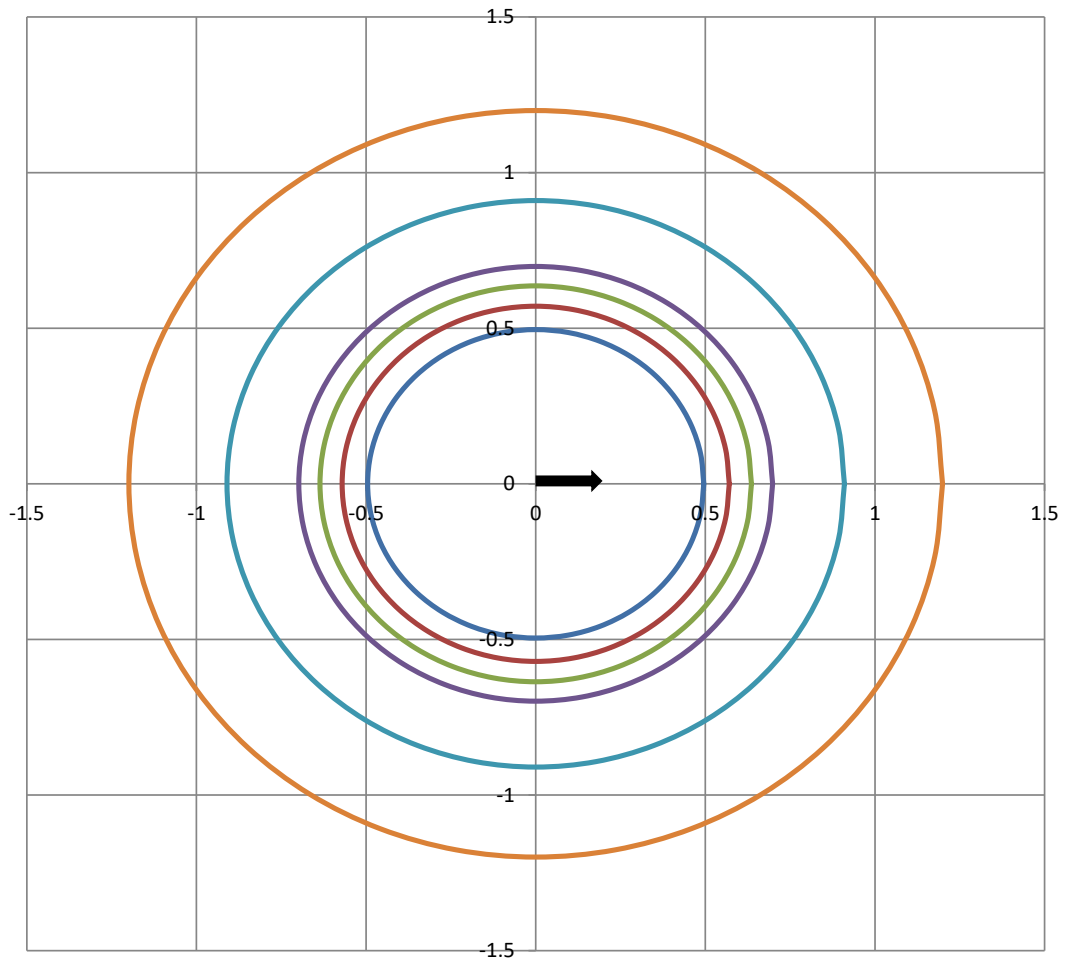
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	9456 Candela
Central Cone Intensity:	8557 Candela
Beam Flux:	776.3 Lumens
Beam Angle (0-180):	15.1 Degrees
Beam Angle (90-270):	15.1 Degrees
Field Angle (0-180):	36.6 Degrees
Field Angle (90-270):	36.6 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		591	1.04
6.00		263	1.56
8.00		148	2.09
10.0		94.6	2.61
12.0		65.7	3.13
14.0		48.2	3.65
16.0		36.9	4.17



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

