



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-FL-12-4000K

Order Number

12496749

Test Number

12496749.07A

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.
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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:	2593 Lumens
Luminaire Efficacy:	31.6 lm/w
Maximum Candela:	2805 Candela

Test Conditions

Test Temperature:	24.6 °C
Voltage:	120.0 VAC
Current:	0.6972 A
Power:	82.16 W
Power Factor:	0.982
Frequency:	60 Hz
Current THD:	14.0 %

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



Distribution - Goniophotometer

Distribution Test Conditions

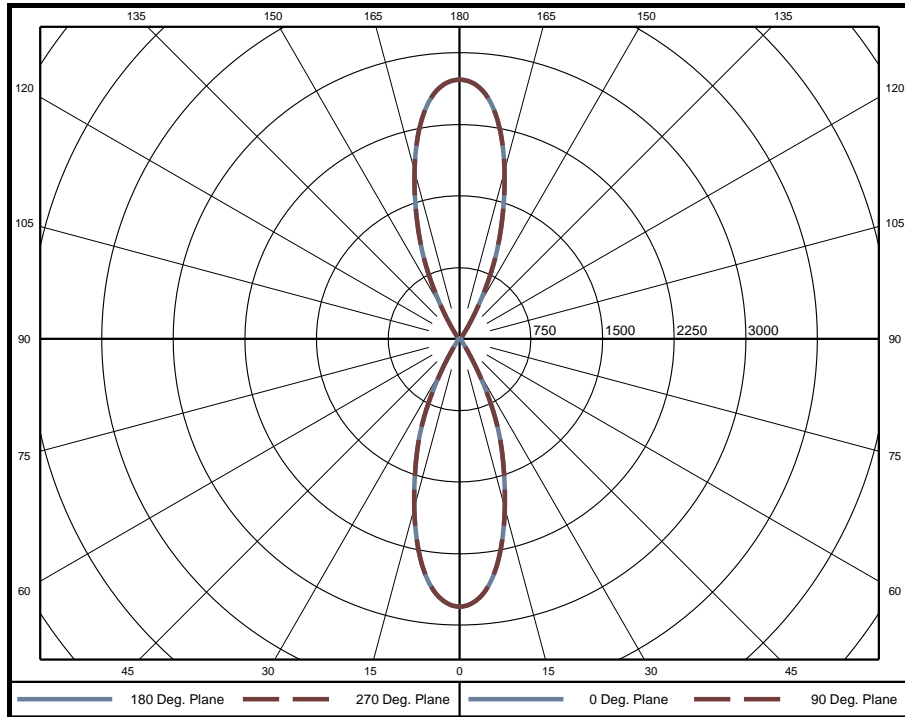
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.6972 A	82.16 W	0.982	60 Hz	14.0 %

Summary of Results

Spacing Criteria
 0-180: 0.62
 90-270: 0.62

Total Lumen Output: 2593 Lumens
Luminaire Efficacy: 31.6 lm/w
Maximum Candela: 2805 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	65.8	2.5%	60-65	10.5	0.4%	120-125	11.4	0.4%
5-10	180.5	7.0%	65-70	9.2	0.4%	125-130	12.5	0.5%
10-15	247.2	9.5%	70-75	7.6	0.3%	130-135	13.7	0.5%
15-20	257.4	9.9%	75-80	5.7	0.2%	135-140	16.9	0.7%
20-25	227.0	8.8%	80-85	4.0	0.2%	140-145	28.1	1.1%
25-30	146.9	5.7%	85-90	1.8	0.1%	145-150	65.4	2.5%
30-35	62.8	2.4%	90-95	1.6	0.1%	150-155	142.4	5.5%
35-40	26.4	1.0%	95-100	3.8	0.1%	155-160	219.2	8.5%
40-45	16.3	0.6%	100-105	5.3	0.2%	160-165	254.7	9.8%
45-50	13.4	0.5%	105-110	7.0	0.3%	165-170	245.0	9.4%
50-55	12.3	0.5%	110-115	8.7	0.3%	170-175	177.0	6.8%
55-60	11.5	0.4%	115-120	10.1	0.4%	175-180	63.9	2.5%

Zone	Lumens	% of Luminaire
0-40	1214	46.8%
0-60	1268	48.9%
0-90	1306	50.4%
90-180	1287	49.6%



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	2805	2805	2805	2805	2805	2805	2805	2805	2805	2805	2805	2805	2805	2805	2805
	5	2694	2694	2694	2694	2694	2694	2694	2694	2694	2694	2694	2694	2694	2694	2694
	10	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350	2350
	15	1837	1837	1837	1837	1837	1837	1837	1837	1837	1837	1837	1837	1837	1837	1837
	20	1324	1324	1324	1324	1324	1324	1324	1324	1324	1324	1324	1324	1324	1324	1324
	25	841	841	841	841	841	841	841	841	841	841	841	841	841	841	841
	30	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357
	35	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
	40	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
	45	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
	50	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	55	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
	60	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	65	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	70	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	75	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	80	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	85	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	90	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	95	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	100	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	105	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	110	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	115	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	120	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	125	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
	130	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
	135	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
	140	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
	145	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129
	150	357	357	357	357	357	357	357	357	357	357	357	357	357	357	357
	155	807	807	807	807	807	807	807	807	807	807	807	807	807	807	807
	160	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296	1296
	165	1824	1824	1824	1824	1824	1824	1824	1824	1824	1824	1824	1824	1824	1824	1824
	170	2316	2316	2316	2316	2316	2316	2316	2316	2316	2316	2316	2316	2316	2316	2316
	175	2625	2625	2625	2625	2625	2625	2625	2625	2625	2625	2625	2625	2625	2625	2625
	180	2717	2717	2717	2717	2717	2717	2717	2717	2717	2717	2717	2717	2717	2717	2717

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90
	0	273300	273300
	45	5090	5090
	55	4513	4513
	65	4595	4595
	75	4749	4749
	85	6661	6661



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	84	84	84	69	69	69	56	56	56	50
1	100	97	94	91	93	90	87	85	77	75	74	65	64	63	54	53	52	47
2	94	88	84	80	87	82	78	75	71	68	66	61	59	57	51	50	49	45
3	88	81	75	71	82	76	71	67	66	62	60	57	55	53	49	47	46	42
4	83	74	68	64	77	70	65	61	61	58	55	54	51	49	46	45	43	40
5	78	69	63	58	73	65	59	55	58	53	50	51	48	46	44	42	41	38
6	73	64	58	53	69	61	55	51	54	50	47	48	45	43	42	40	39	36
7	69	60	54	49	65	57	51	47	51	47	44	46	42	40	40	38	37	35
8	66	56	50	46	62	53	48	44	48	44	41	43	40	38	39	37	35	33
9	63	53	47	43	59	50	45	41	46	42	39	41	38	36	37	35	33	32
10	60	50	44	40	56	48	42	39	43	39	37	39	36	34	36	34	32	30

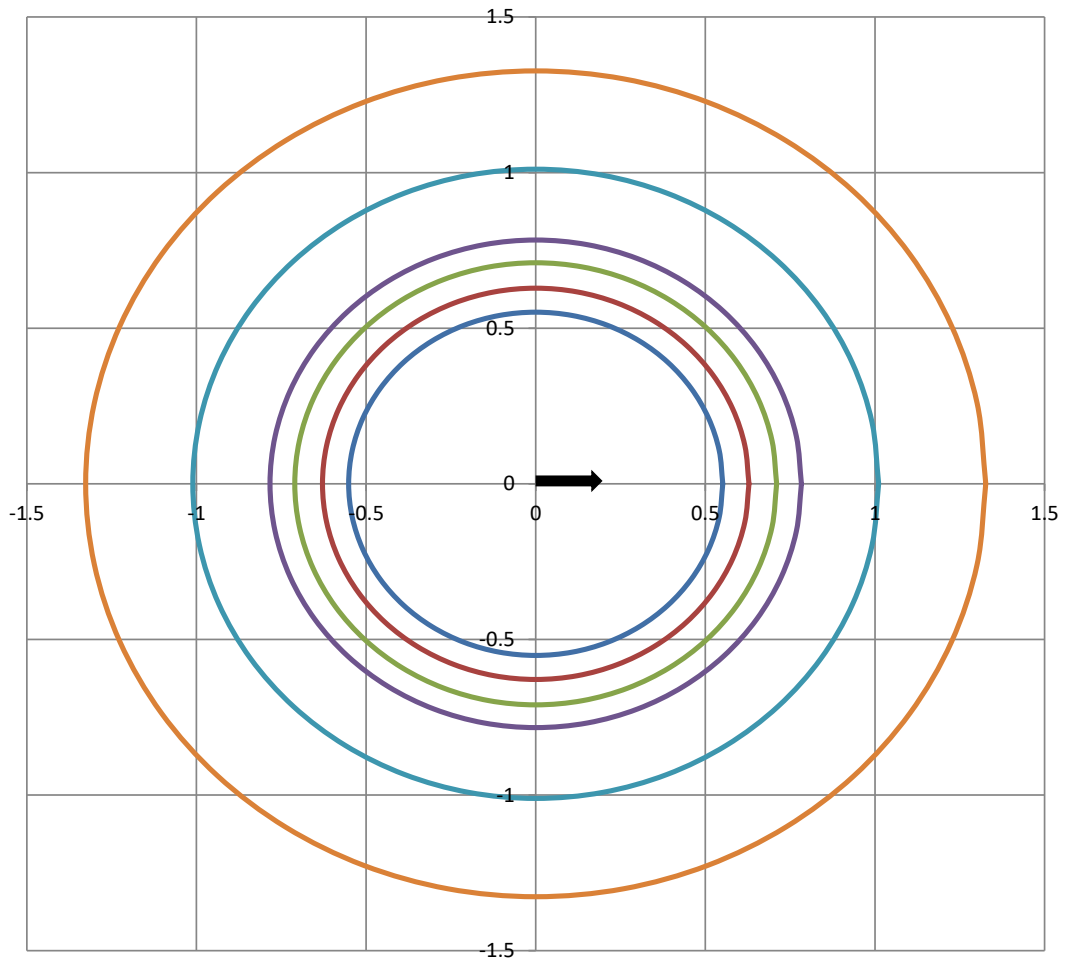
Beam and Field Information	
CIE Type:	Direct/Indirect
Center Beam Intensity:	2805 Candela
Central Cone Intensity:	2766 Candela
Beam Flux:	1396.6 Lumens
Beam Angle (0-180):	38.4 Degrees
Beam Angle (90-270):	38.4 Degrees
Field Angle (0-180):	62.2 Degrees
Field Angle (90-270):	62.2 Degrees

Cone of Light Tabulation			
Mounting Height (Feet)		Footcandles at Nadir	Diameter (Feet)
4.00		175	2.47
6.00		77.9	3.70
8.00		43.8	4.94
10.0		28.0	6.17
12.0		19.5	7.41
14.0		14.3	8.64
16.0		11.0	9.87



ISOFootcandle Plot

Mounting Height - 8 Feet



Grid Lines in Units of Mounting Height

