

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: G3-2203-583-14

Luminaire Tested: PRLX-309-FR-120-BRMT-BZME

Test Date: 6/16/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: G3-2203-583-14  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 6/16/2022  
Issue Date: 6/16/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-309-FR-120-BRMT-BZME  
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, STONE BROWN MATTE (OPAQUE) SHADE, FROSTED LAMP  
Light Source: 1 PHILIPS  
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM  
6/1FB T20. PHILIPS  
Ballast/Driver: PHILIPS  
INTEGRAL TO LAMP

**Summary**

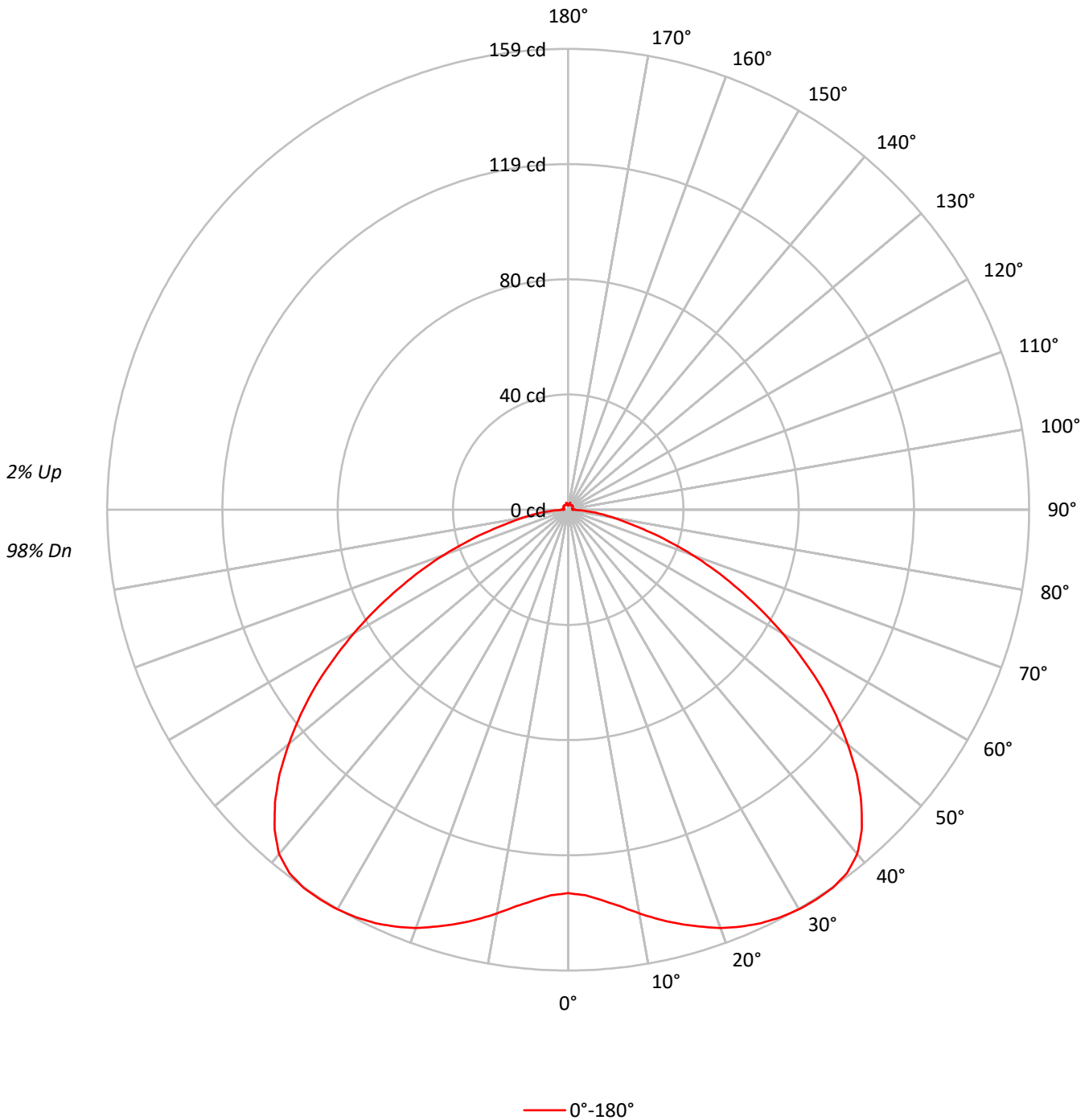
Lumens per Lamp: N/A  
Luminaire Lumens: 546.5 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Spacing Criteria (0/90/45): 1.73 / 1.73 / 1.69  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 0.67' x H: 1')  
CIE Type: Direct

Input Watts (W): 7.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.0679  
Voltage Rise (V): NR  
Power Factor: 0.9782  
Total Harmonic Distortion (THDi): 24.3  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 7.0 HR  
Ambient Temperature (°C): 24.7  
Test Distance: 24 FT



TEST NUMBER: G3-2203-583-14  
CATALOG NUMBER: PRLX-309-FR-120-BRMT-BZME

### Luminous Intensity Polar Plot





TEST NUMBER: G3-2203-583-14

CATALOG NUMBER: PRLX-309-FR-120-BRMT-BZME

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	108	104	99	96	105	101	97	94	97	93	91		92	90	87		88	86	84	82
2	98	90	83	78	96	88	82	77	84	79	75		81	76	73		77	74	71	68
3	90	79	71	64	87	77	70	64	74	67	62		71	65	61		68	63	59	57
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45		56	49	44		54	48	44	41
6	69	55	46	40	67	54	46	40	52	45	39		50	44	38		49	43	38	36
7	64	50	41	35	62	49	41	35	47	40	34		46	39	34		44	38	33	31
8	59	45	37	31	57	44	36	31	43	36	30		42	35	30		40	34	30	28
9	55	41	33	27	53	41	33	27	39	32	27		38	31	27		37	31	26	25
10	51	38	30	25	50	37	30	24	36	29	24		35	29	24		34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	3204
5°	2908
10°	2750
15°	2645
20°	2561
25°	2475
30°	2386
35°	2296
40°	2171
45°	1959
50°	1700
55°	1432
60°	1150
65°	878
70°	631
75°	397
80°	229
85°	110

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1959 cd/sqm



TEST NUMBER: G3-2203-583-14

CATALOG NUMBER: PRLX-309-FR-120-BRMT-BZME

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.1	2.4
10°-20°	42.1	7.7
20°-30°	72.7	13.3
30°-40°	99.5	18.2
40°-50°	109.7	20.1
50°-60°	94.8	17.4
60°-70°	64.3	11.8
70°-80°	30.5	5.6
80°-90°	8.3	1.5
90°-100°	2.0	0.4
100°-110°	1.5	0.3
110°-120°	1.7	0.3
120°-130°	1.7	0.3
130°-140°	1.5	0.3
140°-150°	1.2	0.2
150°-160°	0.8	0.2
160°-170°	0.6	0.1
170°-180°	0.2	0.0
0°-30°	127.9	23.4
0°-40°	227.4	41.6
0°-60°	432.0	79.0
0°-90°	535.1	97.9
90°-120°	5.2	1.0
90°-150°	9.7	1.8
90°-180°	11.0	2.0
0°-180°	546.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	132	
5°	135	13
15°	148	42
25°	157	73
35°	159	99
45°	143	110
55°	107	95
65°	65	64
75°	28	31
85°	7	8
90°	2	1
95°	2	1
105°	2	2
115°	2	2
125°	2	2
135°	2	2
145°	2	1
155°	2	1
165°	2	1
175°	2	0
180°	2	



TEST NUMBER: G3-2203-583-14

CATALOG NUMBER: PRLX-309-FR-120-BRMT-BZME

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	132.3
2.5°	133.1
5°	135.3
7.5°	138.0
10°	141.4
12.5°	144.8
15°	147.9
17.5°	150.8
20°	153.6
22.5°	155.7
25°	157.4
27.5°	158.5
30°	159.2
32.5°	159.4
35°	159.2
37.5°	158.0
40°	155.1
42.5°	149.9
45°	143.0
47.5°	135.0
50°	125.8
52.5°	116.4
55°	106.6
57.5°	95.8
60°	85.4
62.5°	75.1
65°	64.6
67.5°	55.0
70°	45.6
72.5°	36.3
75°	28.0
77.5°	21.0
80°	15.6
82.5°	11.5
85°	7.2
87.5°	3.3
90°	1.5
92.5°	2.3
95°	2.0
97.5°	1.6
100°	1.4
102.5°	1.4
105°	1.5
107.5°	1.4
110°	1.5



TEST NUMBER: G3-2203-583-14  
CATALOG NUMBER: PRLX-309-FR-120-BRMT-BZME

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	1.7
115°	1.7
117.5°	1.8
120°	1.8
122.5°	1.9
125°	1.9
127.5°	2.0
130°	2.0
132.5°	2.0
135°	2.0
137.5°	2.0
140°	1.9
142.5°	1.9
145°	1.9
147.5°	1.9
150°	1.8
152.5°	1.8
155°	1.8
157.5°	1.8
160°	1.8
162.5°	2.4
165°	2.5
167.5°	2.2
170°	2.1
172.5°	2.0
175°	1.8
177.5°	1.5
180°	1.6

(END OF REPORT)