

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: G3-2203-583-12

Luminaire Tested: PRLX-307-FR-120-BRMT-WHST

Test Date: 6/14/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: G3-2203-583-12  
Test Lab: COOPER LIGHTING SOLUTIONS  
Test Date: 6/14/2022  
Issue Date: 6/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: Prenalux  
Catalog Number: PRLX-307-FR-120-BRMT-WHST  
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**

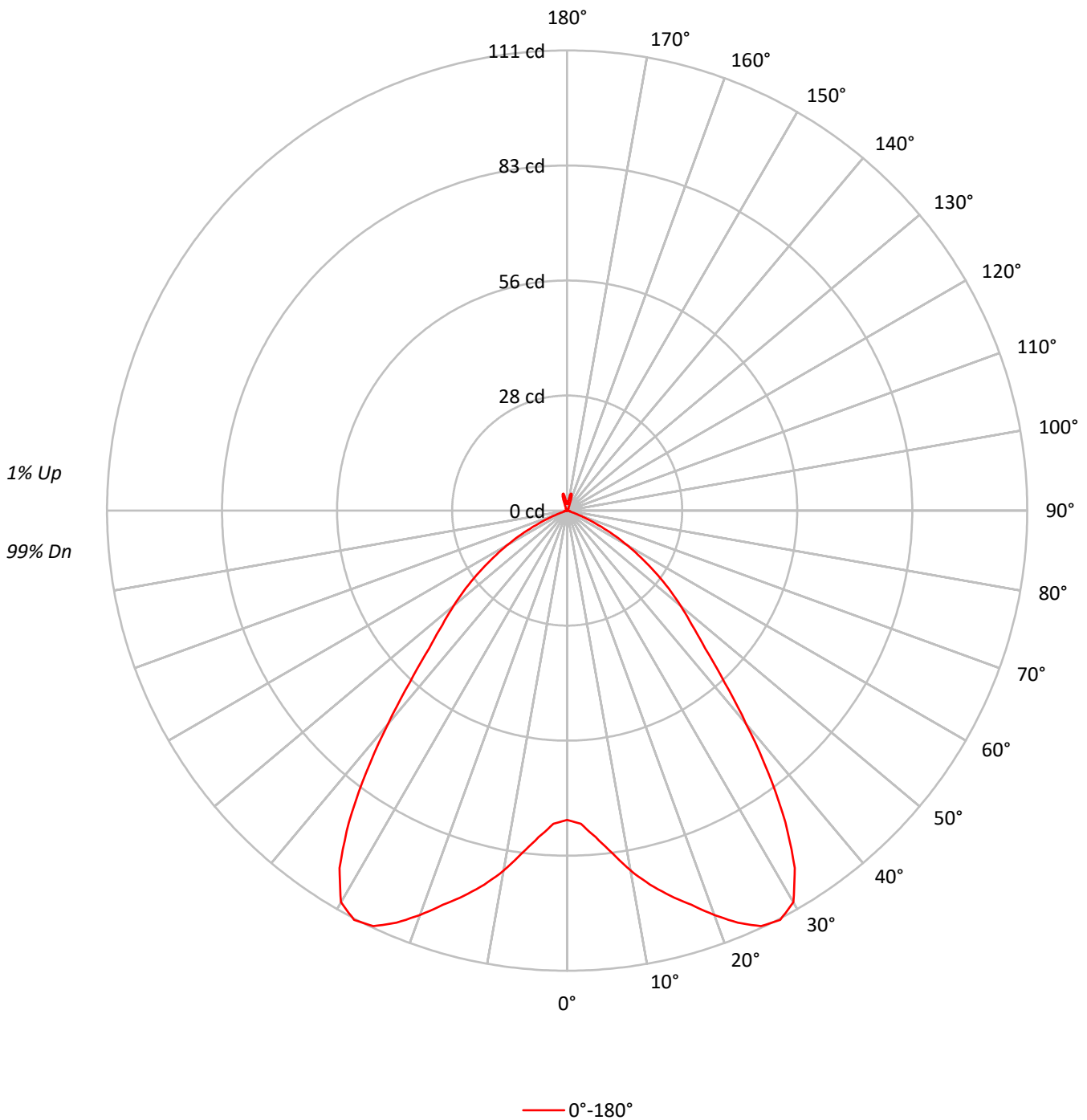
Lumens per Lamp: N/A  
Luminaire Lumens: 215.3 lumens  
Efficiency: N/A  
Efficacy: 27.3 lumens/watt  
Spacing Criteria (0/90/45): 1.57 / 1.57 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 0.67' x H: 1')  
CIE Type: Direct

Input Watts (W): 7.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.0805  
Voltage Rise (V): NR  
Power Factor: 0.9982  
Total Harmonic Distortion (THDi): 70.5%  
Frequency (hertz): 60  
Stabilization Time: 0.5 HR  
Operation Time: 7.0 HR  
Ambient Temperature (°C): 24.9  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**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		101	101	101	99
1	111	108	105	102	109	106	103	100	101	99	97		97	95	94		93	92	91	89
2	104	97	92	88	101	95	91	86	92	88	84		89	85	82		85	83	80	78
3	96	88	81	76	94	86	80	75	83	78	74		80	76	73		78	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65		73	68	64		71	67	63	61
5	83	72	64	59	81	71	64	59	69	63	58		67	61	57		65	60	56	55
6	77	66	58	52	75	65	57	52	63	56	52		61	56	51		60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46		56	50	46		55	50	46	44
8	67	55	48	42	66	54	47	42	53	47	42		52	46	42		51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	47	40	35	45	39	35		45	39	35		44	38	34	33

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

	0°
0°	1807
5°	1700
10°	1715
15°	1721
20°	1730
25°	1739
30°	1635
35°	1324
40°	941
45°	645
50°	483
55°	348
60°	226
65°	113
70°	28
75°	9
80°	7
85°	6

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 645 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.8	3.6
10°-20°	27.5	12.8
20°-30°	50.5	23.5
30°-40°	56.3	26.1
40°-50°	37.5	17.4
50°-60°	23.2	10.8
60°-70°	8.6	4.0
70°-80°	0.9	0.4
80°-90°	0.4	0.2
90°-100°	0.0	0.0
100°-110°	0.1	0.0
110°-120°	0.1	0.1
120°-130°	0.2	0.1
130°-140°	0.3	0.1
140°-150°	0.3	0.1
150°-160°	0.5	0.2
160°-170°	1.0	0.5
170°-180°	0.2	0.1
0°-30°	85.8	39.9
0°-40°	142.1	66.0
0°-60°	202.8	94.2
0°-90°	212.6	98.7
90°-120°	0.2	0.1
90°-150°	0.9	0.4
90°-180°	3.0	1.4
0°-180°	215.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	75	
5°	79	8
15°	96	27
25°	111	51
35°	92	56
45°	47	38
55°	26	23
65°	8	9
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	1	0
165°	4	1
175°	2	0
180°	2	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	74.6
2.5°	75.6
5°	79.1
7.5°	83.3
10°	88.2
12.5°	92.4
15°	96.2
17.5°	99.7
20°	103.8
22.5°	107.6
25°	110.6
27.5°	111.3
30°	109.1
32.5°	102.2
35°	91.8
37.5°	79.7
40°	67.2
42.5°	56.2
45°	47.1
47.5°	40.8
50°	35.7
52.5°	30.8
55°	25.9
57.5°	21.1
60°	16.8
62.5°	12.5
65°	8.3
67.5°	4.7
70°	2.0
72.5°	0.8
75°	0.6
77.5°	0.6
80°	0.5
82.5°	0.5
85°	0.4
87.5°	0.2
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.1
102.5°	0.1
105°	0.1
107.5°	0.0
110°	0.1



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.1
115°	0.1
117.5°	0.2
120°	0.2
122.5°	0.1
125°	0.2
127.5°	0.2
130°	0.3
132.5°	0.3
135°	0.3
137.5°	0.4
140°	0.4
142.5°	0.4
145°	0.4
147.5°	0.5
150°	0.6
152.5°	0.7
155°	0.8
157.5°	1.4
160°	2.5
162.5°	3.5
165°	4.1
167.5°	4.2
170°	3.7
172.5°	2.5
175°	1.7
177.5°	1.8
180°	2.2

(END OF REPORT)