

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: G3-2203-583-9

Luminaire Tested: PRLX-305-FIL-120-BRMT-WHST

Test Date: 6/13/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-9
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/13/2022
Issue Date: 6/13/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-305-FIL-120-BRMT-WHST
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, STONE BROWN MATTE (OPAQUE) SHADE, FILAMENT LAMP
Light Source: 1 PHILIPS
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: PHILIPS
INTEGRAL TO LAMP

Summary

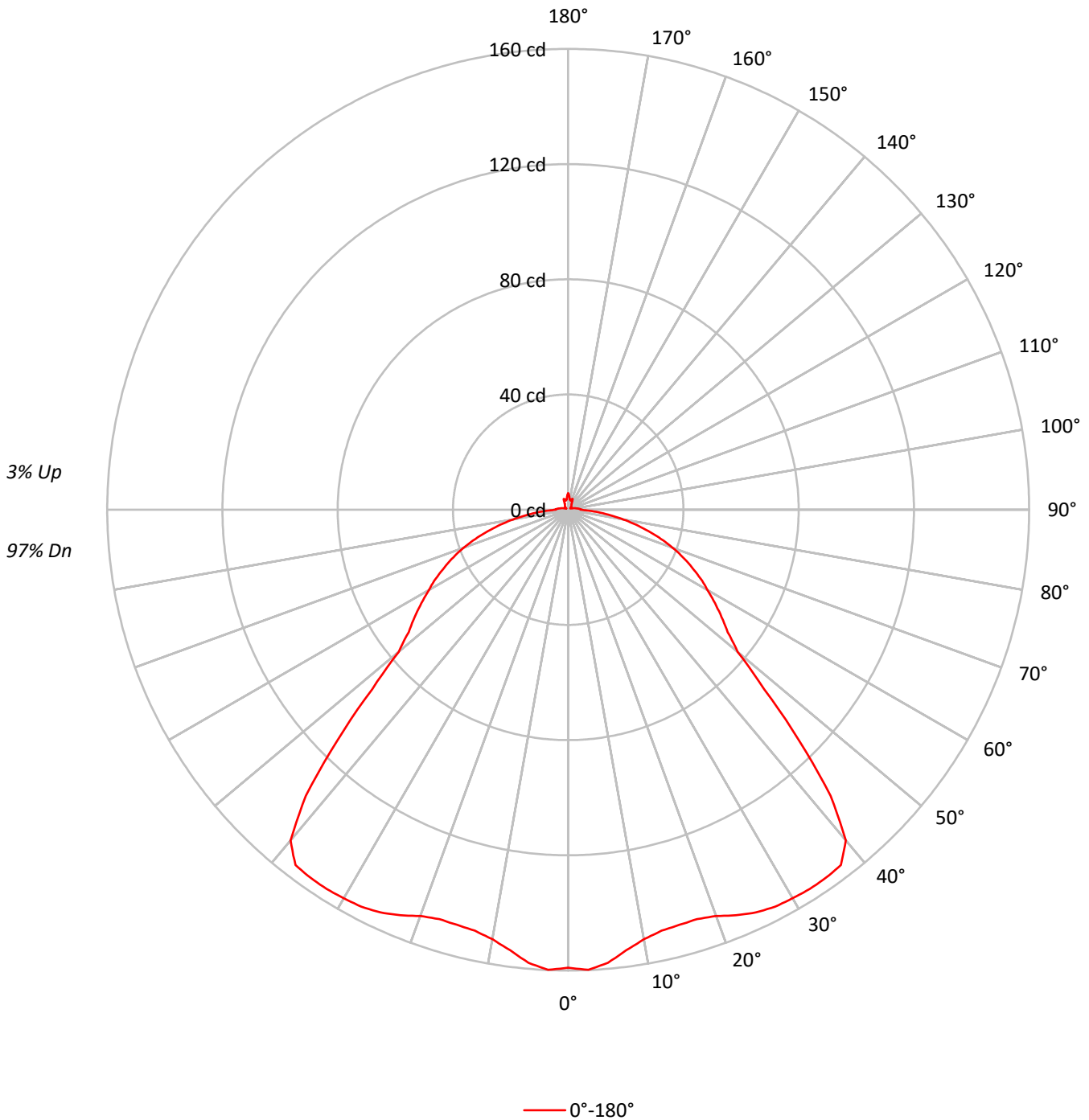
Lumens per Lamp: N/A
Luminaire Lumens: 474.3 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 1.5 / 1.5 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 1.42' x L: 1.42' x H: 1.42')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0794
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): 24.8
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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97
1	108	103	99	95	105	101	97	94	96	93	90	92	89	87	88	86	84	81
2	99	91	84	78	96	88	82	77	84	79	75	81	76	73	77	74	71	68
3	90	80	72	66	88	78	71	65	75	68	63	72	66	62	69	64	60	58
4	83	71	62	56	80	70	62	55	67	60	54	64	58	53	62	56	52	50
5	76	64	55	48	74	62	54	48	60	53	47	58	51	46	56	50	46	44
6	71	57	49	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	46	40	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	37	32	42	37	32	30
9	57	44	36	30	55	43	35	30	42	35	30	40	34	29	39	33	29	27
10	53	40	32	27	52	40	32	27	38	32	27	37	31	27	36	30	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	853
5°	782
10°	701
15°	653
20°	628
25°	623
30°	612
35°	601
40°	571
45°	430
50°	292
55°	250
60°	219
65°	191
70°	162
75°	126
80°	90
85°	52

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 430 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	3.1
10°-20°	42.4	8.9
20°-30°	71.3	15.0
30°-40°	97.4	20.5
40°-50°	87.0	18.4
50°-60°	58.5	12.3
60°-70°	46.9	9.9
70°-80°	30.5	6.4
80°-90°	11.9	2.5
90°-100°	4.1	0.9
100°-110°	2.2	0.5
110°-120°	1.1	0.2
120°-130°	0.9	0.2
130°-140°	1.2	0.3
140°-150°	1.3	0.3
150°-160°	1.5	0.3
160°-170°	1.0	0.2
170°-180°	0.4	0.1
0°-30°	128.5	27.1
0°-40°	225.9	47.6
0°-60°	371.4	78.3
0°-90°	460.8	97.1
90°-120°	7.3	1.5
90°-150°	10.6	2.2
90°-180°	14.0	3.0
0°-180°	474.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	159	
5°	158	15
15°	149	42
25°	154	71
35°	156	97
45°	113	87
55°	65	58
65°	47	47
75°	29	31
85°	10	10
90°	4	3
95°	4	3
105°	2	2
115°	1	1
125°	1	1
135°	2	1
145°	2	1
155°	4	2
165°	3	1
175°	4	0
180°	6	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	159.0
2.5°	159.9
5°	157.9
7.5°	154.3
10°	151.4
12.5°	149.7
15°	149.2
17.5°	149.0
20°	150.1
22.5°	152.4
25°	154.3
27.5°	155.4
30°	155.8
32.5°	156.1
35°	156.0
37.5°	155.5
40°	149.9
42.5°	134.8
45°	113.4
47.5°	92.3
50°	76.8
52.5°	69.8
55°	65.0
57.5°	60.4
60°	55.9
62.5°	51.8
65°	47.4
67.5°	43.1
70°	38.6
72.5°	33.8
75°	28.8
77.5°	24.1
80°	19.4
82.5°	14.9
85°	10.5
87.5°	6.5
90°	4.3
92.5°	4.3
95°	3.7
97.5°	3.3
100°	2.8
102.5°	2.4
105°	2.1
107.5°	1.7
110°	1.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.2
115°	1.1
117.5°	0.9
120°	0.8
122.5°	0.8
125°	0.9
127.5°	1.1
130°	1.3
132.5°	1.4
135°	1.6
137.5°	1.7
140°	1.7
142.5°	1.9
145°	2.0
147.5°	2.1
150°	2.4
152.5°	2.8
155°	3.5
157.5°	4.1
160°	3.9
162.5°	3.3
165°	3.3
167.5°	3.4
170°	3.5
172.5°	3.8
175°	4.5
177.5°	5.2
180°	5.7

(END OF REPORT)