

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: G3-2203-583-1

Luminaire Tested: PRLX-301-FIL-120-DGYS-GDME

Test Date: 6/10/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-1
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/10/2022
Issue Date: 6/10/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-301-FIL-120-DGYS-GDME
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, DARK GRAY (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

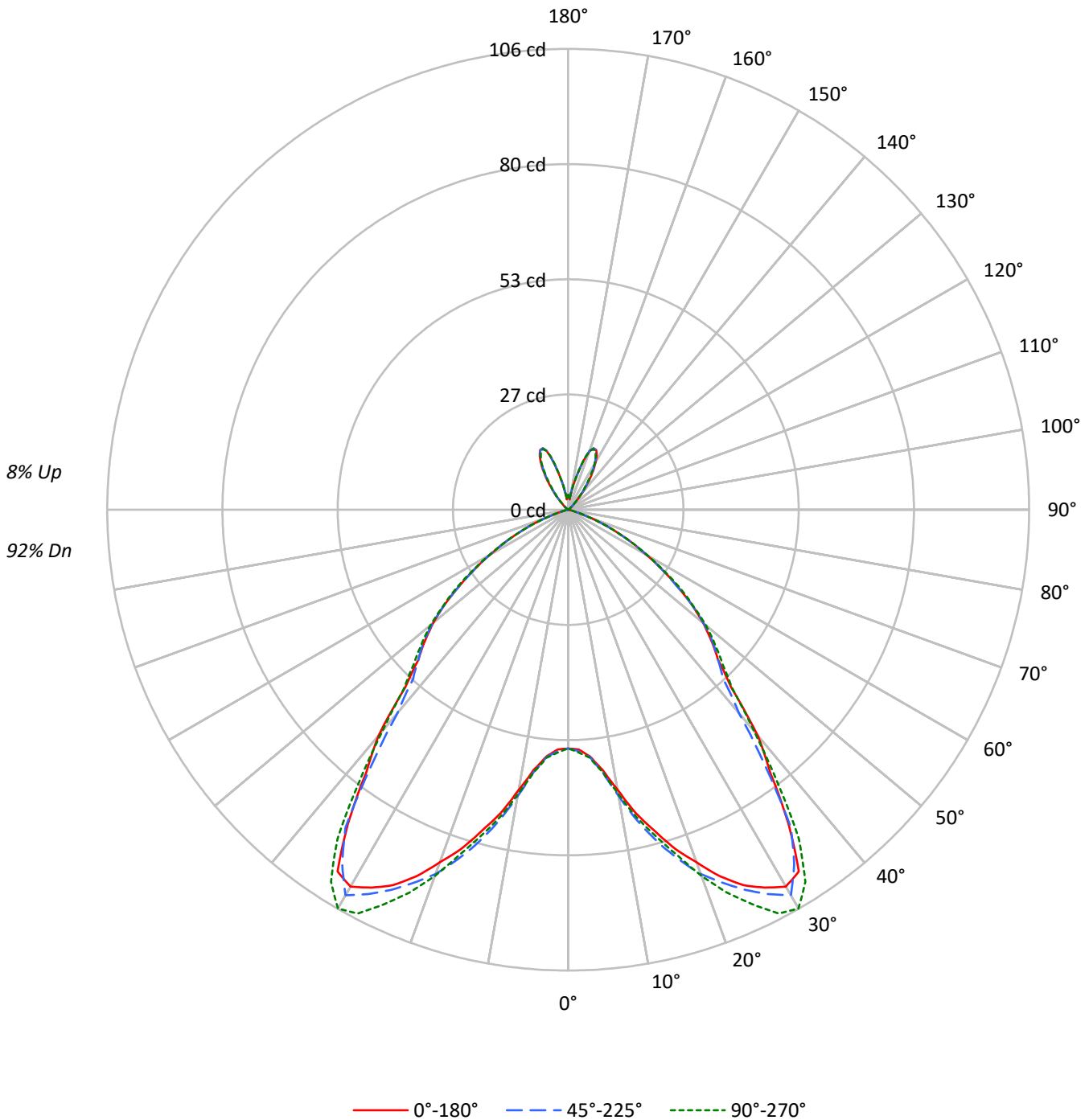
Lumens per Lamp: N/A
Luminaire Lumens: 226.7 lumens
Efficiency: N/A
Efficacy: 29.1 lumens/watt
Spacing Criteria (0/90/45): 1.73 / 1.72 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 1.26')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0794
Voltage Rise (V): NR
Power Factor: 0.9981
Total Harmonic Distortion (THDi): 70.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 7.0 HR
Ambient Temperature (°C): 24.0
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	50	30	10	0	
RCR																						
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92				
1	109	106	102	99	106	103	100	97	97	95	92	92	90	88	87	86	84	82				
2	101	94	89	84	98	92	87	83	87	83	80	83	80	77	79	76	74	72				
3	93	84	78	72	90	82	76	71	78	73	69	75	70	67	71	68	65	62				
4	86	76	68	62	83	74	67	62	71	65	60	68	62	58	65	60	57	55				
5	80	68	60	54	77	67	59	54	64	57	53	61	56	51	59	54	50	48				
6	74	62	54	48	71	60	53	47	58	51	46	56	50	46	53	48	45	43				
7	68	56	48	43	66	55	47	42	53	46	41	51	45	41	49	44	40	38				
8	64	51	43	38	62	50	43	38	48	42	37	47	41	36	45	40	36	34				
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	31				
10	56	43	36	31	54	43	35	31	41	35	30	40	34	30	38	33	29	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	434	434	434
5°	413	400	416
10°	441	423	448
15°	485	459	493
20°	521	482	541
25°	553	491	580
30°	562	496	595
35°	485	416	508
40°	367	276	359
45°	261	215	270
50°	218	177	222
55°	165	132	169
60°	114	91	116
65°	72	55	70
70°	31	24	32
75°	5	4	5
80°	3	2	3
85°	1	0	1

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 270 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.7	2.5
10°-20°	22.3	9.9
20°-30°	45.1	19.9
30°-40°	55.2	24.4
40°-50°	38.9	17.2
50°-60°	27.4	12.1
60°-70°	12.6	5.6
70°-80°	1.8	0.8
80°-90°	0.2	0.1
90°-100°	0.1	0.0
100°-110°	0.1	0.1
110°-120°	0.2	0.1
120°-130°	0.4	0.2
130°-140°	1.7	0.8
140°-150°	5.1	2.3
150°-160°	6.6	2.9
160°-170°	2.8	1.2
170°-180°	0.3	0.1
0°-30°	73.1	32.3
0°-40°	128.4	56.6
0°-60°	194.7	85.9
0°-90°	209.3	92.3
90°-120°	0.4	0.2
90°-150°	7.6	3.4
90°-180°	17.0	7.5
0°-180°	226.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	55	55	55	55	55	
5°	57	57	57	57	57	6
15°	76	78	79	78	78	22
25°	95	96	96	99	100	44
35°	88	92	89	94	92	54
45°	49	49	49	49	50	39
55°	30	31	30	31	31	27
65°	13	13	12	13	12	13
75°	1	1	1	1	1	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	2	2	2	2	2	2
145°	9	8	8	8	8	5
155°	15	15	15	15	15	7
165°	9	9	9	9	9	3
175°	3	3	3	3	3	0
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	54.9	54.9	54.9	54.9	54.9
2.5°	55.2	55.1	55.6	55.5	55.9
5°	56.9	56.7	57.1	57.0	57.3
7.5°	60.3	60.6	60.9	61.1	60.9
10°	65.4	65.8	66.9	66.2	66.4
12.5°	71.4	71.6	73.2	72.8	72.4
15°	76.4	77.5	79.0	78.4	77.7
17.5°	81.8	82.4	84.3	83.5	83.3
20°	86.3	86.9	89.2	88.9	89.6
22.5°	91.3	91.4	92.9	94.0	95.3
25°	95.3	96.2	96.5	99.4	100.1
27.5°	98.0	99.9	99.7	103.9	104.7
30°	100.1	103.0	102.4	106.5	105.9
32.5°	98.7	100.1	96.7	102.5	101.5
35°	88.4	91.9	89.3	94.2	92.5
37.5°	76.4	80.4	74.6	81.6	79.0
40°	67.8	67.4	61.1	68.5	66.4
42.5°	55.5	54.0	52.8	55.0	55.9
45°	48.7	48.6	48.7	49.2	50.2
47.5°	44.7	44.8	45.1	45.8	45.7
50°	40.5	40.6	40.7	41.2	41.4
52.5°	35.7	35.8	35.8	36.1	36.1
55°	30.5	30.6	30.4	30.9	31.3
57.5°	25.5	25.4	25.5	25.7	26.1
60°	20.8	21.0	21.0	21.0	21.1
62.5°	16.6	16.5	16.5	16.6	16.7
65°	12.7	12.6	12.5	12.6	12.5
67.5°	9.0	8.9	8.8	8.8	8.7
70°	5.4	5.5	5.3	5.3	5.5
72.5°	2.9	2.7	2.8	2.8	2.8
75°	0.8	0.9	0.8	0.7	0.8
77.5°	0.5	0.5	0.4	0.5	0.5
80°	0.4	0.3	0.4	0.4	0.4
82.5°	0.3	0.3	0.3	0.3	0.2
85°	0.1	0.1	0.1	0.2	0.2
87.5°	0.1	0.2	0.2	0.1	0.1
90°	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	0.1	0.1	0.1
100°	0.1	0.1	0.1	0.1	0.1
102.5°	0.1	0.1	0.0	0.1	0.1
105°	0.1	0.1	0.1	0.1	0.1
107.5°	0.1	0.2	0.1	0.1	0.1
110°	0.2	0.2	0.1	0.2	0.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.1	0.1	0.1	0.2	0.2
115°	0.3	0.2	0.2	0.3	0.2
117.5°	0.2	0.2	0.2	0.2	0.1
120°	0.3	0.3	0.3	0.3	0.3
122.5°	0.3	0.3	0.3	0.3	0.3
125°	0.3	0.4	0.4	0.3	0.3
127.5°	0.5	0.5	0.5	0.5	0.5
130°	0.9	0.9	1.0	0.8	0.9
132.5°	1.2	1.3	1.3	1.2	1.2
135°	1.9	1.9	2.0	1.9	1.9
137.5°	3.1	3.2	3.1	3.0	3.1
140°	4.7	4.6	4.6	4.5	4.4
142.5°	6.4	6.3	6.2	6.2	6.0
145°	8.6	8.5	8.2	8.1	7.9
147.5°	10.7	10.6	10.2	10.0	10.0
150°	12.6	12.6	12.3	12.1	12.1
152.5°	14.2	14.2	13.9	13.6	13.6
155°	15.2	15.3	15.1	14.8	14.8
157.5°	15.3	15.6	15.3	15.2	15.1
160°	14.3	14.5	14.4	14.3	14.3
162.5°	12.0	12.2	12.0	12.2	12.2
165°	8.9	9.4	8.9	9.2	9.0
167.5°	6.4	6.9	6.5	6.8	6.4
170°	4.1	4.3	4.3	4.3	4.2
172.5°	2.4	2.4	2.8	2.6	2.3
175°	2.8	2.6	2.8	2.9	2.9
177.5°	3.2	3.0	3.0	3.0	3.0
180°	3.4	3.4	3.4	3.4	3.4

(END OF REPORT)