

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: G3-2203-583-2

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

Test Date: 6/10/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-2
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/10/2022
Issue Date: 6/10/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-301-FR-120-DGYS-GDME
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, DARK GRAY (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

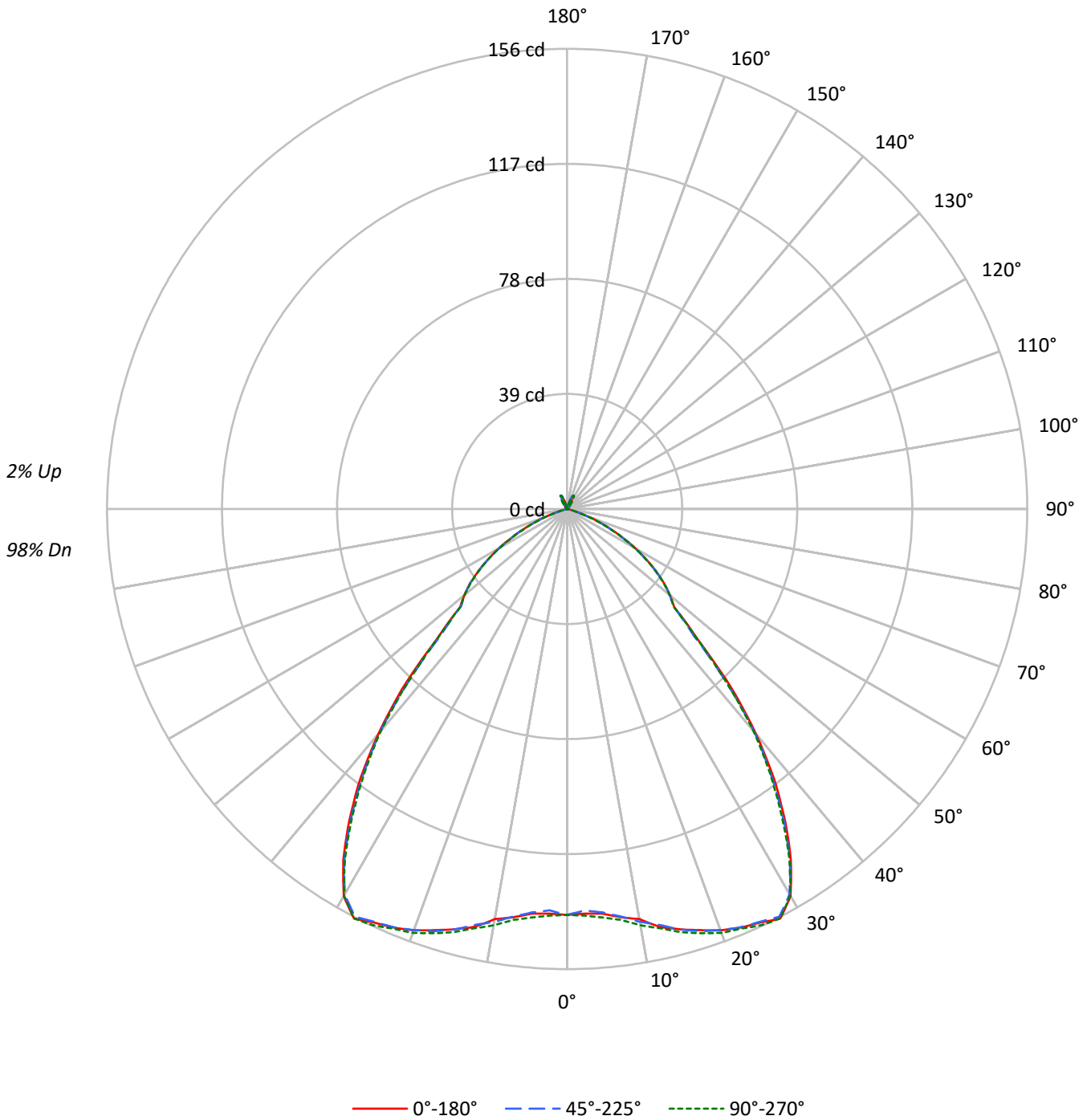
Lumens per Lamp: N/A
Luminaire Lumens: 312.4 lumens
Efficiency: N/A
Efficacy: 39.5 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.41 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 1.26')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0689
Voltage Rise (V): NR
Power Factor: 0.9787
Total Harmonic Distortion (THDi): 23.0%
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	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	98																												
1	111	108	104	102	109	105	102	100	101	99	96	97	95	93	93	92	90	88																												
2	103	97	92	87	101	95	90	86	91	87	84	88	85	82	85	82	80	78																												
3	96	87	81	76	94	86	80	75	83	78	74	80	76	72	77	74	71	69																												
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	66	63	61																												
5	83	72	64	59	81	71	64	58	69	62	58	67	61	57	65	60	56	54																												
6	77	66	58	52	75	65	57	52	63	56	52	61	55	51	60	55	51	49																												
7	72	60	52	47	70	59	52	47	58	51	47	56	50	46	55	50	46	44																												
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	45	42	40																												
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36																												
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1088	1088	1088
5°	999	961	1008
10°	952	898	966
15°	936	857	942
20°	918	821	923
25°	897	786	903
30°	851	731	850
35°	707	595	696
40°	539	447	532
45°	336	268	333
50°	244	198	243
55°	199	159	197
60°	147	115	145
65°	94	73	92
70°	44	33	43
75°	7	5	6
80°	4	3	4
85°	2	1	2

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 336 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.3	4.3
10°-20°	42.0	13.4
20°-30°	71.3	22.8
30°-40°	78.9	25.3
40°-50°	50.4	16.1
50°-60°	32.5	10.4
60°-70°	16.4	5.3
70°-80°	2.5	0.8
80°-90°	0.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.3	0.1
130°-140°	0.6	0.2
140°-150°	1.3	0.4
150°-160°	1.9	0.6
160°-170°	0.5	0.2
170°-180°	0.0	0.0
0°-30°	126.6	40.5
0°-40°	205.5	65.8
0°-60°	288.5	92.3
0°-90°	307.7	98.5
90°-120°	0.1	0.0
90°-150°	2.3	0.7
90°-180°	5.0	1.6
0°-180°	312.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	138	138	138	138	138	
5°	138	138	137	138	139	13
15°	148	147	148	148	148	42
25°	155	155	154	155	156	71
35°	129	128	128	127	127	80
45°	63	62	61	62	62	51
55°	37	37	37	37	36	33
65°	17	17	17	16	16	17
75°	1	1	1	1	1	3
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°	1	1	1	1	1	1
145°	1	2	2	2	3	1
155°	4	4	5	5	5	2
165°	1	1	1	2	1	0
175°	0	0	0	0	1	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	137.6	137.6	137.6	137.6	137.6
2.5°	137.3	137.7	136.2	137.5	138.0
5°	137.7	137.9	137.3	138.0	139.0
7.5°	139.6	139.7	139.3	139.9	140.5
10°	141.2	142.7	142.1	142.5	143.3
12.5°	145.1	145.5	144.4	145.1	145.6
15°	147.5	147.1	147.6	147.6	148.5
17.5°	149.7	150.1	150.1	150.3	150.8
20°	152.0	152.3	151.9	151.9	152.9
22.5°	153.6	153.0	153.5	153.9	154.0
25°	154.7	154.8	154.4	154.9	155.7
27.5°	156.5	155.9	155.8	156.2	156.5
30°	151.5	151.3	150.8	151.4	151.3
32.5°	141.2	140.4	140.5	140.4	140.2
35°	128.7	127.8	127.7	127.0	126.8
37.5°	115.1	114.0	113.6	112.8	112.9
40°	99.7	99.0	98.9	98.9	98.3
42.5°	82.9	81.7	80.4	80.0	80.4
45°	62.6	61.8	60.7	61.6	62.1
47.5°	49.2	49.1	48.7	48.8	49.0
50°	45.5	45.4	45.4	45.2	45.3
52.5°	41.5	41.6	41.4	41.4	41.3
55°	36.8	36.9	36.7	36.7	36.4
57.5°	31.8	31.5	31.6	31.5	31.6
60°	26.8	26.5	26.6	26.5	26.4
62.5°	21.5	21.6	21.5	21.3	21.1
65°	16.7	16.6	16.6	16.5	16.4
67.5°	12.0	11.9	11.6	11.7	11.7
70°	7.6	7.5	7.4	7.5	7.4
72.5°	3.8	3.8	3.8	3.7	3.6
75°	1.1	1.2	1.2	1.1	1.0
77.5°	0.6	0.6	0.6	0.6	0.6
80°	0.6	0.6	0.6	0.5	0.6
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.3	0.3	0.3	0.3	0.3
87.5°	0.1	0.1	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.1	0.1	0.0	0.0	0.1
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.1	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.1	0.1	0.1	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.1	0.0	0.0	0.0
115°	0.1	0.1	0.1	0.1	0.0
117.5°	0.0	0.1	0.0	0.0	0.0
120°	0.1	0.1	0.1	0.1	0.0
122.5°	0.2	0.2	0.2	0.2	0.1
125°	0.3	0.3	0.3	0.3	0.2
127.5°	0.4	0.4	0.4	0.4	0.2
130°	0.5	0.5	0.6	0.5	0.4
132.5°	0.7	0.7	0.8	0.7	0.6
135°	0.8	0.8	0.9	0.8	0.7
137.5°	0.9	1.0	1.1	1.1	1.0
140°	0.9	1.0	1.2	1.3	1.2
142.5°	1.1	1.3	1.5	1.8	1.8
145°	1.4	1.7	1.9	2.4	2.6
147.5°	1.8	2.3	2.5	3.0	3.3
150°	2.4	3.1	3.3	3.7	4.2
152.5°	3.0	3.7	4.2	4.5	5.0
155°	4.0	4.0	4.9	4.9	5.0
157.5°	4.0	3.9	5.0	4.9	4.5
160°	3.5	3.2	3.9	4.3	3.6
162.5°	2.5	2.1	2.5	3.2	2.2
165°	1.3	1.0	1.3	1.5	1.0
167.5°	0.4	0.3	0.5	0.5	0.3
170°	0.3	0.3	0.2	0.1	0.2
172.5°	0.3	0.2	0.3	0.4	0.2
175°	0.0	0.0	0.0	0.0	0.7
177.5°	0.0	0.0	0.0	0.0	0.1
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)