

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: G2-2210-802-35

Luminaire Tested: PRLX-415-FR-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/11/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-35
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/11/2023
Issue Date: 1/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-415-FR-120-WHST-RHL-TFIN-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (OPAQUE) SHADE, FROSTED LAMP
Light Source: 1 PHILIPS 60W FROSTED BULB
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM
6/1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP

Summary

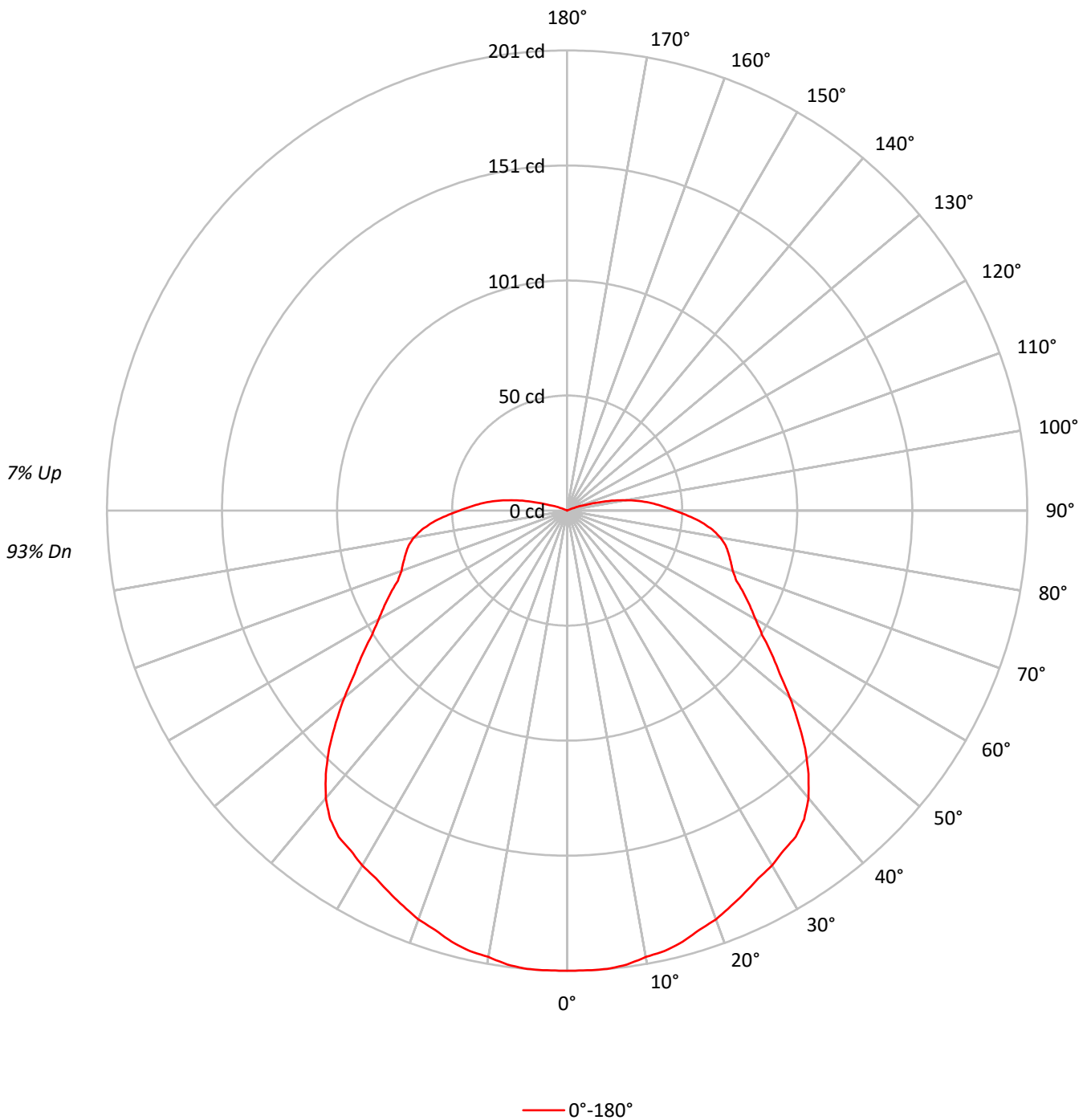
Lumens per Lamp: N/A
Luminaire Lumens: 760.2 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.44
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0687
Voltage Rise (V): NR
Power Factor: 0.9529
Total Harmonic Distortion (THDi): 23.4%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.7
Test Distance: 24 FT

TEST NUMBER: G2-2210-802-35

CATALOG NUMBER: PRLX-415-FR-120-WHST-RHL-TFIN-DW-WH

Luminous Intensity Polar Plot





TEST NUMBER: G2-2210-802-35

CATALOG NUMBER: PRLX-415-FR-120-WHST-RHL-TFIN-DW-WH

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	104	98	92	87	100	95	90	85	89	85	81	84	80	77	79	76	74	71
2	94	84	76	69	90	81	74	68	76	70	65	72	67	62	68	64	60	57
3	85	73	64	57	82	71	62	56	67	60	54	63	57	52	59	54	50	47
4	77	64	55	48	74	63	54	47	59	51	45	56	49	44	53	47	43	40
5	71	57	48	41	68	56	47	40	53	45	39	50	43	38	47	41	37	34
6	66	52	42	35	63	50	41	35	48	40	34	45	38	33	43	37	32	30
7	61	47	37	31	58	45	37	31	43	35	30	41	34	29	39	33	28	26
8	56	42	34	28	54	41	33	27	39	32	27	38	31	26	36	30	25	23
9	53	39	30	25	51	38	30	24	36	29	24	35	28	23	33	27	23	21
10	49	36	28	22	48	35	27	22	34	26	22	32	26	21	31	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1099
5°	1042
10°	983
15°	936
20°	889
25°	846
30°	815
35°	790
40°	749
45°	680
50°	601
55°	531
60°	481
65°	451
70°	433
75°	440
80°	446
85°	427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 680 cd/sqm



TEST NUMBER: G2-2210-802-35

CATALOG NUMBER: PRLX-415-FR-120-WHST-RHL-TFIN-DW-WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.1	2.5
10°-20°	55.0	7.2
20°-30°	85.1	11.2
30°-40°	108.4	14.3
40°-50°	113.0	14.9
50°-60°	98.0	12.9
60°-70°	84.5	11.1
70°-80°	77.1	10.1
80°-90°	63.7	8.4
90°-100°	40.3	5.3
100°-110°	15.0	2.0
110°-120°	1.1	0.2
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	159.2	20.9
0°-40°	267.6	35.2
0°-60°	478.5	62.9
0°-90°	703.8	92.6
90°-120°	56.4	7.4
90°-150°	56.4	7.4
90°-180°	56.0	7.4
0°-180°	760.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	201	
5°	201	19
15°	195	55
25°	184	85
35°	174	108
45°	147	113
55°	109	98
65°	85	85
75°	73	77
85°	59	50
90°	47	26
95°	37	28
105°	13	15
115°	0	1
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



TEST NUMBER: G2-2210-802-35

CATALOG NUMBER: PRLX-415-FR-120-WHST-RHL-TFIN-DW-WH

CANDELA DISTRIBUTION (FULL):

0°	
0°	201
2.5°	201
5°	201
7.5°	200
10°	198
12.5°	197
15°	195
17.5°	192
20°	190
22.5°	187
25°	184
27.5°	181
30°	179
32.5°	176
35°	174
37.5°	170
40°	164
42.5°	156
45°	147
47.5°	137
50°	127
52.5°	117
55°	109
57.5°	101
60°	95
62.5°	90
65°	85
67.5°	80
70°	77
72.5°	75
75°	73
77.5°	71
80°	68
82.5°	64
85°	59
87.5°	53
90°	47
92.5°	42
95°	37
97.5°	32
100°	26
102.5°	20
105°	13
107.5°	8
110°	5



TEST NUMBER: G2-2210-802-35

CATALOG NUMBER: PRLX-415-FR-120-WHST-RHL-TFIN-DW-WH

CANDELA DISTRIBUTION (continued):

	0°
112.5°	2
115°	0
117.5°	0
120°	0
122.5°	0
125°	0
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)