

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: G2-2210-802-53

Luminaire Tested: PRLX-415-FR-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/10/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-53
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/10/2023
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-415-FR-120-BKMT-RHL-TFIN-DB-BK
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, BLACK (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

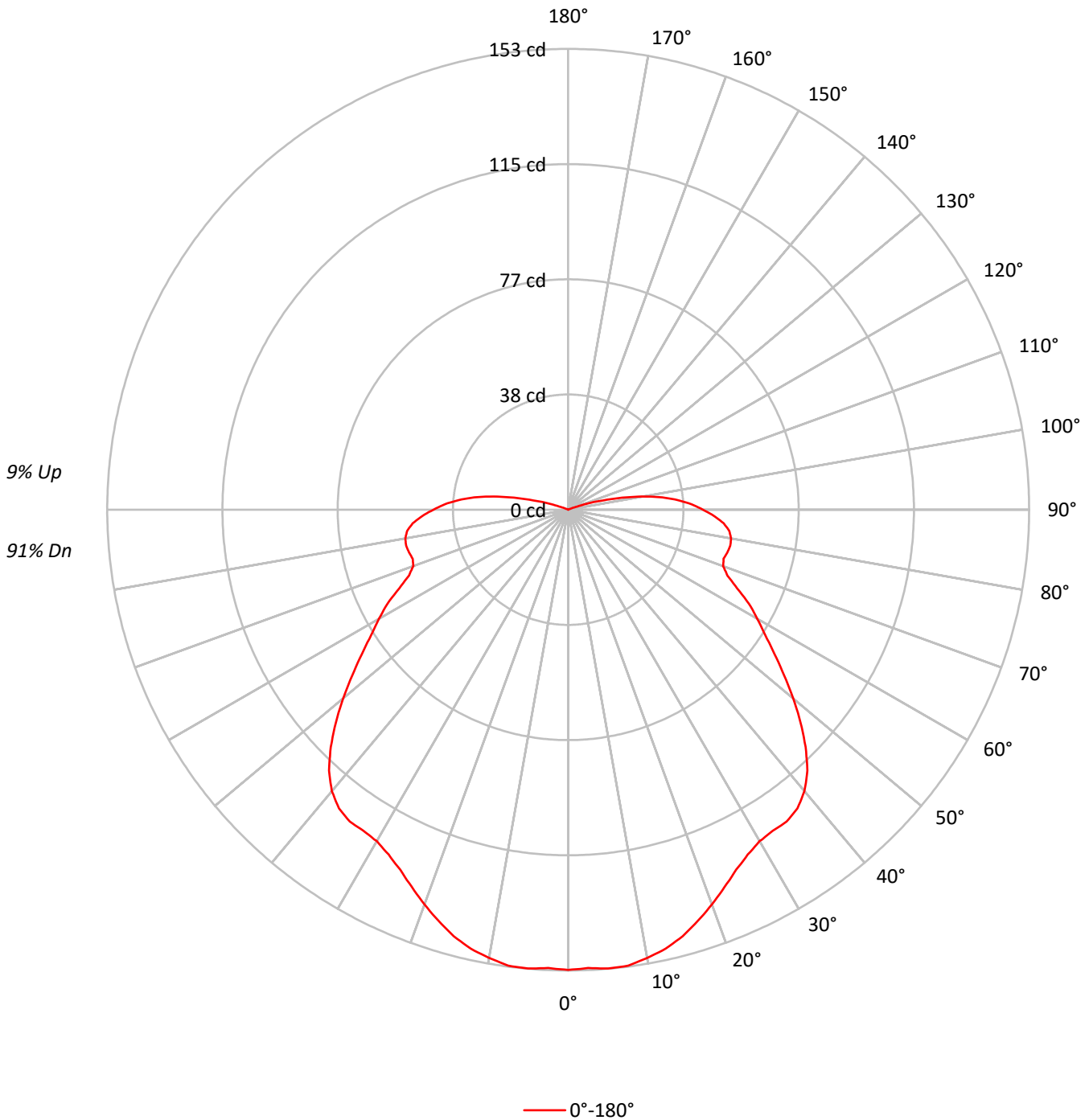
Lumens per Lamp: N/A
Luminaire Lumens: 585.7 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.43
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0686
Voltage Rise (V): NR
Power Factor: 0.9527
Total Harmonic Distortion (THDi): 23.5%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 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	117	117	117	117	113	113	113	113	106	106	106		100	100	100		94	94	94	91
1	103	97	91	86	99	94	89	84	88	83	80		82	79	75		77	74	72	69
2	93	83	75	68	89	80	73	67	75	69	64		70	65	61		66	62	58	55
3	84	72	63	56	81	70	61	55	66	58	52		61	55	50		58	53	48	46
4	77	64	54	47	74	62	53	46	58	50	44		54	48	43		51	46	41	38
5	70	57	47	40	68	55	46	39	52	44	38		49	42	37		46	40	35	33
6	65	51	41	35	62	49	41	34	47	39	33		44	37	32		42	36	31	29
7	60	46	37	30	58	45	36	30	42	35	29		40	33	28		38	32	27	25
8	56	42	33	27	54	41	32	27	39	31	26		37	30	25		35	29	25	22
9	52	38	30	24	50	37	29	24	36	28	23		34	27	23		32	26	22	20
10	49	35	27	22	47	34	27	22	33	26	21		31	25	21		30	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	835
5°	793
10°	750
15°	703
20°	652
25°	606
30°	579
35°	574
40°	557
45°	516
50°	461
55°	407
60°	367
65°	329
70°	308
75°	330
80°	360
85°	375

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 516 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	2.5
10°-20°	41.2	7.0
20°-30°	61.1	10.4
30°-40°	78.8	13.5
40°-50°	85.6	14.6
50°-60°	75.2	12.8
60°-70°	62.0	10.6
70°-80°	57.8	9.9
80°-90°	55.6	9.5
90°-100°	39.3	6.7
100°-110°	13.7	2.3
110°-120°	0.6	0.1
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°	116.9	20.0
0°-40°	195.8	33.4
0°-60°	356.6	60.9
0°-90°	532.1	90.8
90°-120°	53.6	9.2
90°-150°	53.6	9.2
90°-180°	54.0	9.2
0°-180°	585.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	153	
5°	153	15
15°	147	41
25°	132	61
35°	126	79
45°	111	86
55°	84	75
65°	62	62
75°	55	58
85°	52	43
90°	45	25
95°	37	28
105°	12	14
115°	0	1
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	152.8
2.5°	152.3
5°	152.9
7.5°	152.7
10°	151.1
12.5°	149.3
15°	146.6
17.5°	143.1
20°	139.5
22.5°	135.6
25°	131.9
27.5°	129.1
30°	127.1
32.5°	126.4
35°	126.4
37.5°	125.0
40°	122.0
42.5°	117.5
45°	111.4
47.5°	104.6
50°	97.5
52.5°	90.3
55°	83.6
57.5°	77.5
60°	72.5
62.5°	67.7
65°	61.9
67.5°	57.2
70°	54.7
72.5°	54.1
75°	54.7
77.5°	55.1
80°	54.9
82.5°	53.9
85°	51.8
87.5°	48.5
90°	44.7
92.5°	41.0
95°	36.6
97.5°	31.5
100°	25.2
102.5°	18.4
105°	12.0
107.5°	6.8
110°	3.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)