

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: G2-2210-802-54

Luminaire Tested: PRLX-417-FR-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/10/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-54
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-417-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

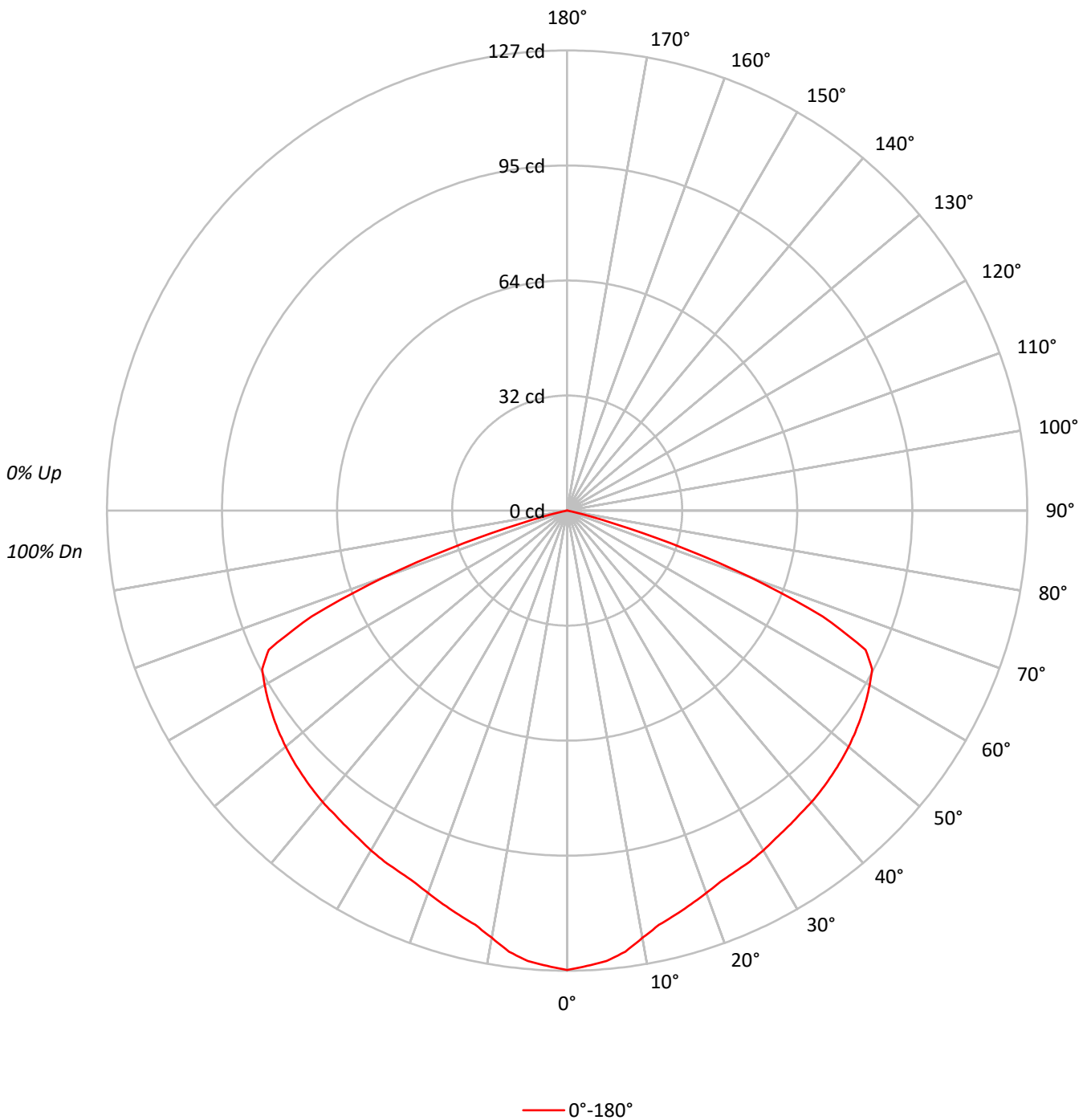
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 432.3 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.54
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0691
Voltage Rise (V): NR
Power Factor: 0.9542
Total Harmonic Distortion (THDi): 22.9%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.5
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				69
3	89	78	70	63	87	76	69	62	73	67	61	71	65	60	68	63	59	57				57
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	50	47				47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40				40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34				34
7	62	48	39	33	61	47	39	32	46	38	32	44	37	32	43	37	32	30				30
8	58	44	35	29	56	43	35	29	42	34	28	40	33	28	39	33	28	26				26
9	54	40	31	26	52	39	31	25	38	31	25	37	30	25	36	30	25	23				23
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	693
5°	647
10°	594
15°	554
20°	525
25°	505
30°	493
35°	483
40°	480
45°	478
50°	479
55°	483
60°	488
65°	482
70°	302
75°	60
80°	3
85°	2

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 62.5°
 Luminance: 491 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	2.7
10°-20°	32.7	7.6
20°-30°	50.9	11.8
30°-40°	66.8	15.5
40°-50°	79.9	18.5
50°-60°	88.8	20.5
60°-70°	83.4	19.3
70°-80°	17.8	4.1
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°	0.0	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°	95.3	22.0
0°-40°	162.2	37.5
0°-60°	330.9	76.5
0°-90°	432.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	127	
5°	125	12
15°	116	33
25°	110	51
35°	106	67
45°	103	80
55°	99	89
65°	91	83
75°	10	18
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	126.8
2.5°	125.8
5°	124.8
7.5°	122.8
10°	119.7
12.5°	117.1
15°	115.5
17.5°	113.9
20°	112.3
22.5°	110.8
25°	109.9
27.5°	109.2
30°	108.3
32.5°	107.2
35°	106.4
37.5°	105.6
40°	105.0
42.5°	104.2
45°	103.3
47.5°	102.4
50°	101.4
52.5°	100.3
55°	99.1
57.5°	97.8
60°	96.4
62.5°	94.9
65°	90.9
67.5°	76.3
70°	53.6
72.5°	29.8
75°	10.0
77.5°	1.1
80°	0.5
82.5°	0.4
85°	0.3
87.5°	0.1
90°	0.0

(END OF REPORT)