

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: G2-2210-802-50

Luminaire Tested: PRLX-409-FR-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/7/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-50
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/7/2023
Issue Date: 1/7/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-409-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

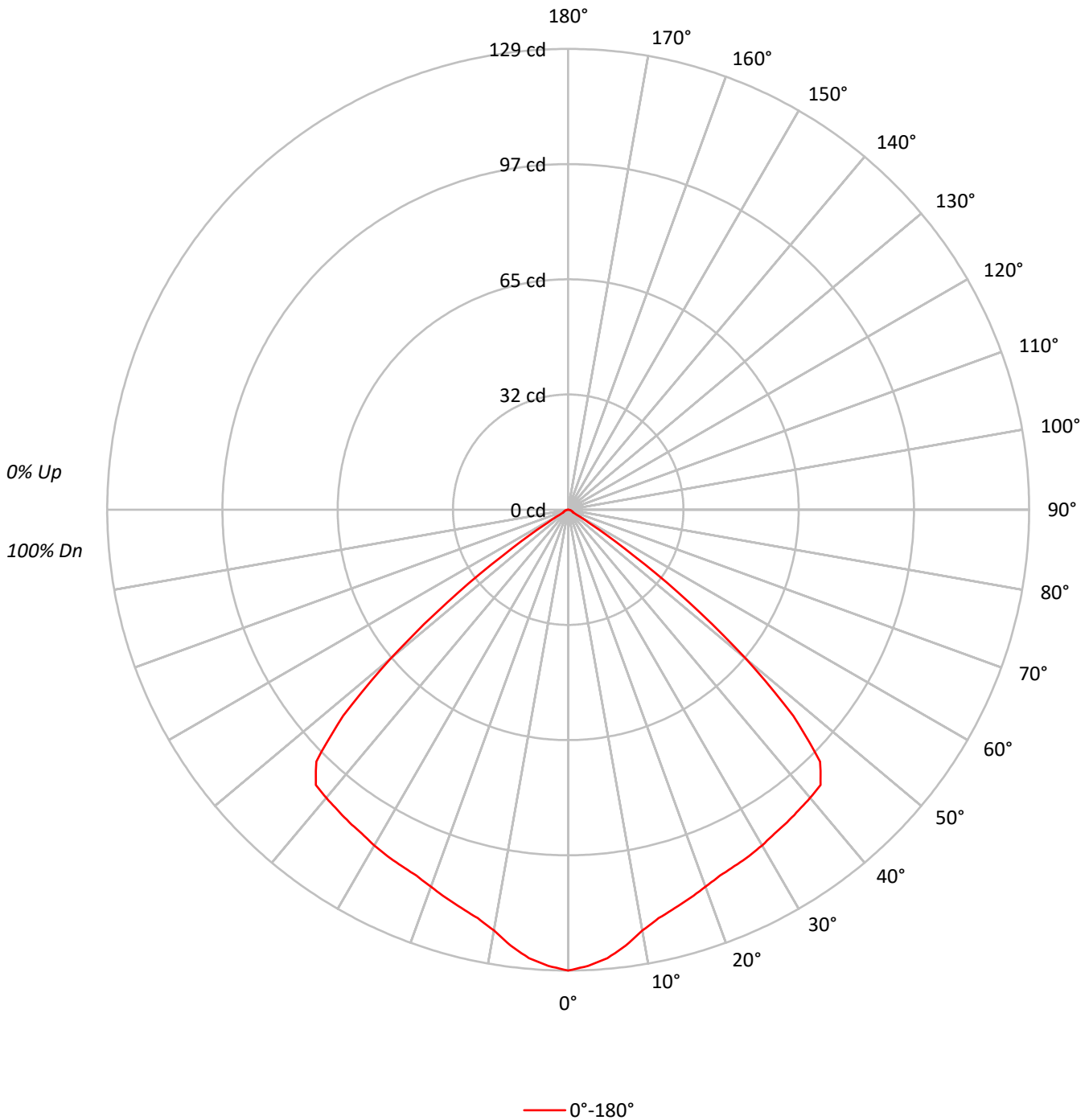
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 259.9 lumens
Efficiency: N/A
Efficacy: 32.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0690
Voltage Rise (V): NR
Power Factor: 0.9539
Total Harmonic Distortion (THDi): 23.0%
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	105	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87	84	82	80
3	97	89	82	77	95	87	81	77	85	80	75		82	78	74		80	76	73	71
4	90	80	73	68	88	79	73	67	77	71	67		75	70	66		73	68	65	63
5	84	73	65	60	82	72	65	60	70	64	59		68	63	58		66	62	58	56
6	78	66	59	53	76	65	58	53	64	57	53		62	57	52		61	56	52	50
7	72	61	53	48	71	60	53	47	58	52	47		57	51	47		56	51	47	45
8	68	56	48	43	66	55	48	43	54	47	42		52	47	42		51	46	42	40
9	63	51	44	39	62	51	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°
0°	1299
5°	1146
10°	999
15°	897
20°	822
25°	768
30°	727
35°	694
40°	669
45°	625
50°	403
55°	139
60°	11
65°	8
70°	7
75°	5
80°	3
85°	1

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 625 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.8	4.5
10°-20°	32.7	12.6
20°-30°	51.0	19.6
30°-40°	67.1	25.8
40°-50°	72.1	27.7
50°-60°	23.0	8.9
60°-70°	1.3	0.5
70°-80°	0.7	0.3
80°-90°	0.2	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°	95.4	36.7
0°-40°	162.5	62.5
0°-60°	257.6	99.1
0°-90°	259.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	259.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	129	
5°	126	12
15°	115	33
25°	110	51
35°	107	67
45°	100	72
55°	22	23
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	129.0
2.5°	127.8
5°	126.0
7.5°	123.1
10°	119.6
12.5°	117.1
15°	115.4
17.5°	113.9
20°	112.3
22.5°	110.9
25°	110.1
27.5°	109.4
30°	108.5
32.5°	107.5
35°	106.8
37.5°	106.0
40°	105.3
42.5°	104.5
45°	99.7
47.5°	85.4
50°	64.8
52.5°	42.7
55°	22.3
57.5°	6.9
60°	1.8
62.5°	1.5
65°	1.3
67.5°	1.2
70°	1.0
72.5°	0.8
75°	0.7
77.5°	0.5
80°	0.4
82.5°	0.3
85°	0.2
87.5°	0.1
90°	0.0

(END OF REPORT)