

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: G2-2210-802-48

Luminaire Tested: PRLX-405-FR-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/5/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-48
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/5/2023
Issue Date: 1/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-405-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

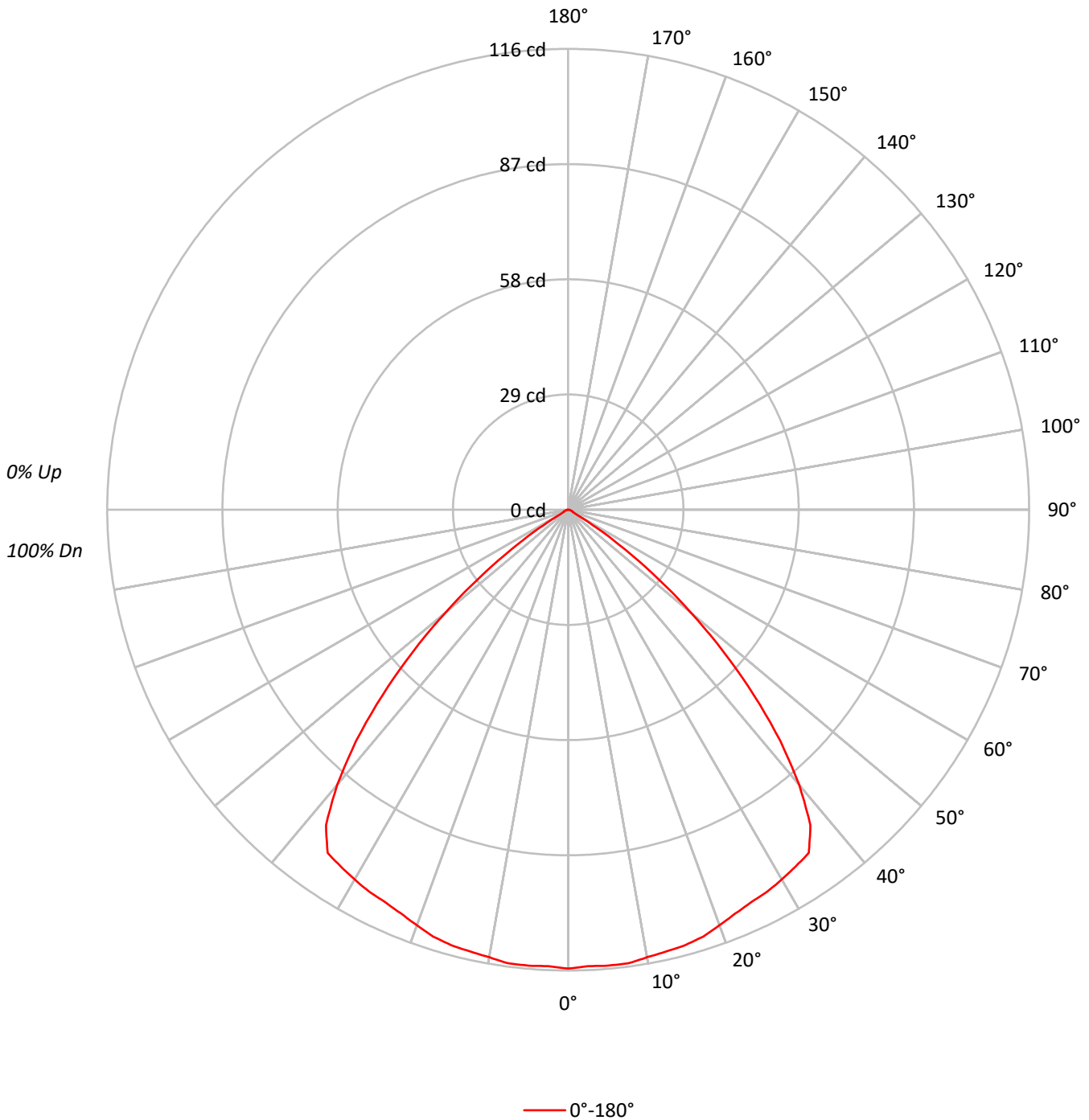
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 227.3 lumens
Efficiency: N/A
Efficacy: 29.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.4 / 1.33
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.92')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0683
Voltage Rise (V): NR
Power Factor: 0.9515
Total Harmonic Distortion (THDi): 23.8%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.8
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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91				91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81				81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73				73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58				58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52				52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47				47
8	69	58	50	45	68	57	50	45	56	49	45	54	49	45	53	48	44	43				43
9	65	53	46	41	64	53	46	41	51	45	41	50	45	41	50	44	40	39				39
10	61	49	42	37	60	49	42	37	48	42	37	47	41	37	46	41	37	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3562
5°	3092
10°	2737
15°	2466
20°	2231
25°	2042
30°	1904
35°	1784
40°	1474
45°	1050
50°	628
55°	267
60°	40
65°	20
70°	14
75°	9
80°	6
85°	3

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1050 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	4.8
10°-20°	32.1	14.1
20°-30°	50.5	22.2
30°-40°	64.4	28.3
40°-50°	50.5	22.2
50°-60°	16.7	7.3
60°-70°	1.4	0.6
70°-80°	0.6	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°	93.5	41.1
0°-40°	157.9	69.5
0°-60°	225.1	99.0
0°-90°	227.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	227.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	116	
5°	115	11
15°	114	32
25°	109	50
35°	106	64
45°	66	51
55°	17	17
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	115.5
2.5°	115.0
5°	115.2
7.5°	115.2
10°	114.4
12.5°	113.9
15°	113.5
17.5°	112.7
20°	111.3
22.5°	110.0
25°	109.0
27.5°	108.4
30°	107.5
32.5°	106.5
35°	105.5
37.5°	100.1
40°	90.4
42.5°	79.0
45°	66.2
47.5°	53.1
50°	40.4
52.5°	28.3
55°	17.4
57.5°	8.6
60°	2.6
62.5°	1.4
65°	1.3
67.5°	1.1
70°	0.9
72.5°	0.7
75°	0.6
77.5°	0.5
80°	0.4
82.5°	0.3
85°	0.2
87.5°	0.1
90°	0.0

(END OF REPORT)