

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: G2-2210-802-52

Luminaire Tested: PRLX-413-FR-120-BKMT-RHL-TFIN-DB-BK

Test Date: 1/10/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-52
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-413-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

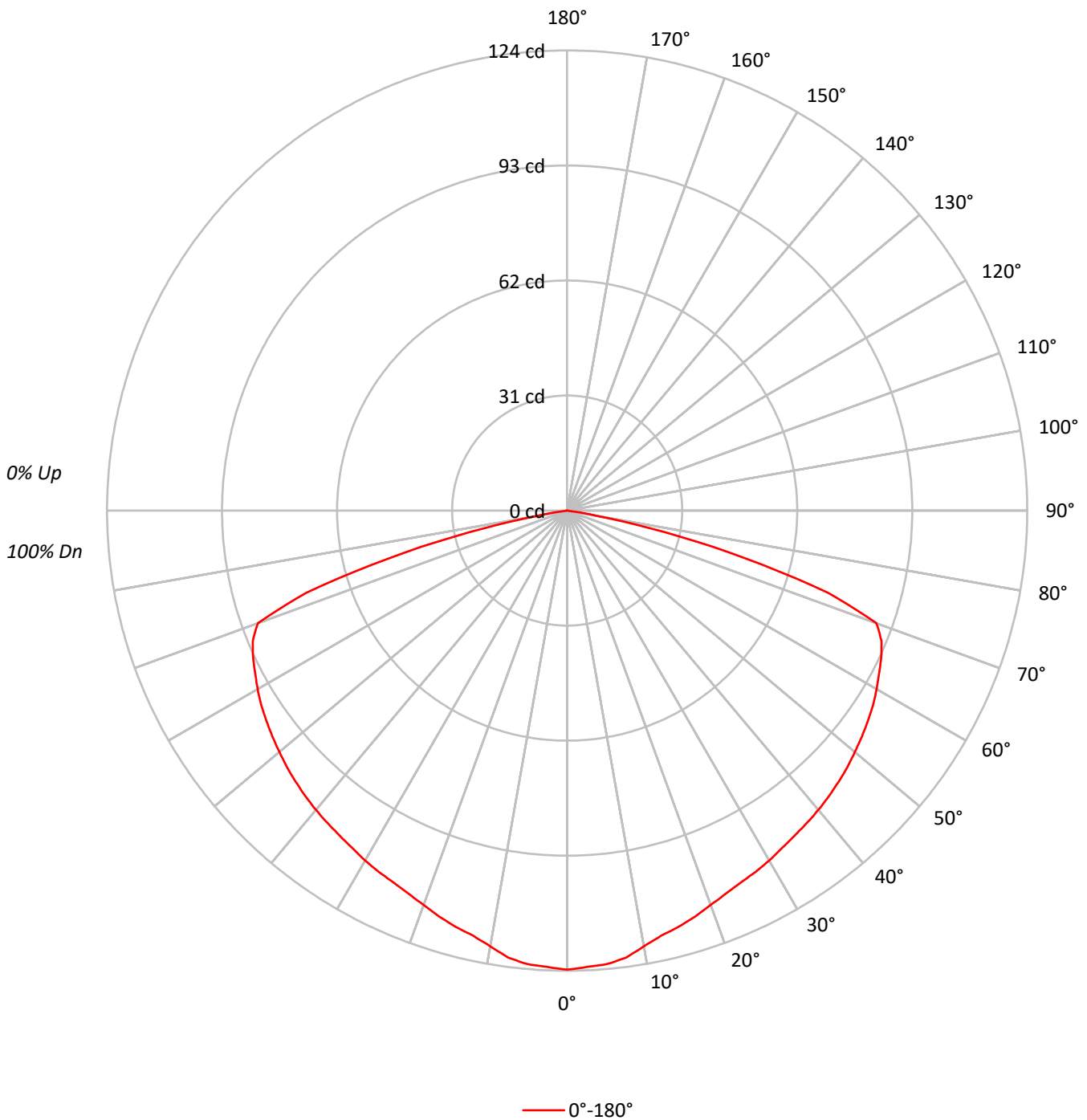
Lumens per Lamp: N/A
Luminaire Lumens: 477.4 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.56
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 1')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0689
Voltage Rise (V): NR
Power Factor: 0.9537
Total Harmonic Distortion (THDi): 23.1%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.4
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	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	96	87	80	73	94	85	78	72	82	76	71		78	73	69		75	71	67	65
3	87	75	66	59	84	73	65	58	70	63	57		67	61	56		65	60	55	53
4	79	65	56	48	76	64	55	48	61	53	47		59	52	46		57	51	46	43
5	72	58	48	40	69	56	47	40	54	46	40		52	45	39		50	44	39	36
6	66	51	42	35	64	50	41	34	48	40	34		47	39	34		45	38	33	31
7	61	46	37	30	59	45	36	30	44	35	30		42	35	29		41	34	29	27
8	56	42	33	26	55	41	32	26	40	32	26		38	31	26		37	31	26	24
9	52	38	29	23	51	37	29	23	36	29	23		35	28	23		34	28	23	21
10	49	35	27	21	48	34	26	21	33	26	21		32	26	21		32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	676
5°	629
10°	580
15°	541
20°	509
25°	485
30°	469
35°	456
40°	449
45°	443
50°	439
55°	439
60°	440
65°	443
70°	442
75°	263
80°	45
85°	2

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 67.5°
 Luminance: 445 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	2.4
10°-20°	32.8	6.9
20°-30°	51.2	10.7
30°-40°	67.2	14.1
40°-50°	80.0	16.8
50°-60°	88.7	18.6
60°-70°	92.4	19.3
70°-80°	52.3	10.9
80°-90°	1.3	0.3
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°	95.6	20.0
0°-40°	162.8	34.1
0°-60°	331.5	69.4
0°-90°	477.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	477.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	124	
5°	123	12
15°	116	33
25°	111	51
35°	107	67
45°	103	80
55°	99	89
65°	93	92
75°	50	52
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	123.7
2.5°	123.1
5°	122.7
7.5°	121.5
10°	119.2
12.5°	117.3
15°	116.1
17.5°	114.7
20°	113.1
22.5°	111.7
25°	110.6
27.5°	109.8
30°	108.9
32.5°	107.8
35°	106.9
37.5°	106.1
40°	105.3
42.5°	104.4
45°	103.4
47.5°	102.4
50°	101.2
52.5°	100.1
55°	98.9
57.5°	97.7
60°	96.3
62.5°	94.8
65°	93.4
67.5°	91.7
70°	88.7
72.5°	73.7
75°	49.9
77.5°	27.0
80°	7.9
82.5°	0.4
85°	0.3
87.5°	0.1
90°	0.0

(END OF REPORT)