

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: G2-2210-802-32

Luminaire Tested: PRLX-409-FR-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/7/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-32
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-WHST-RHL-TFIN-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, WHITE (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

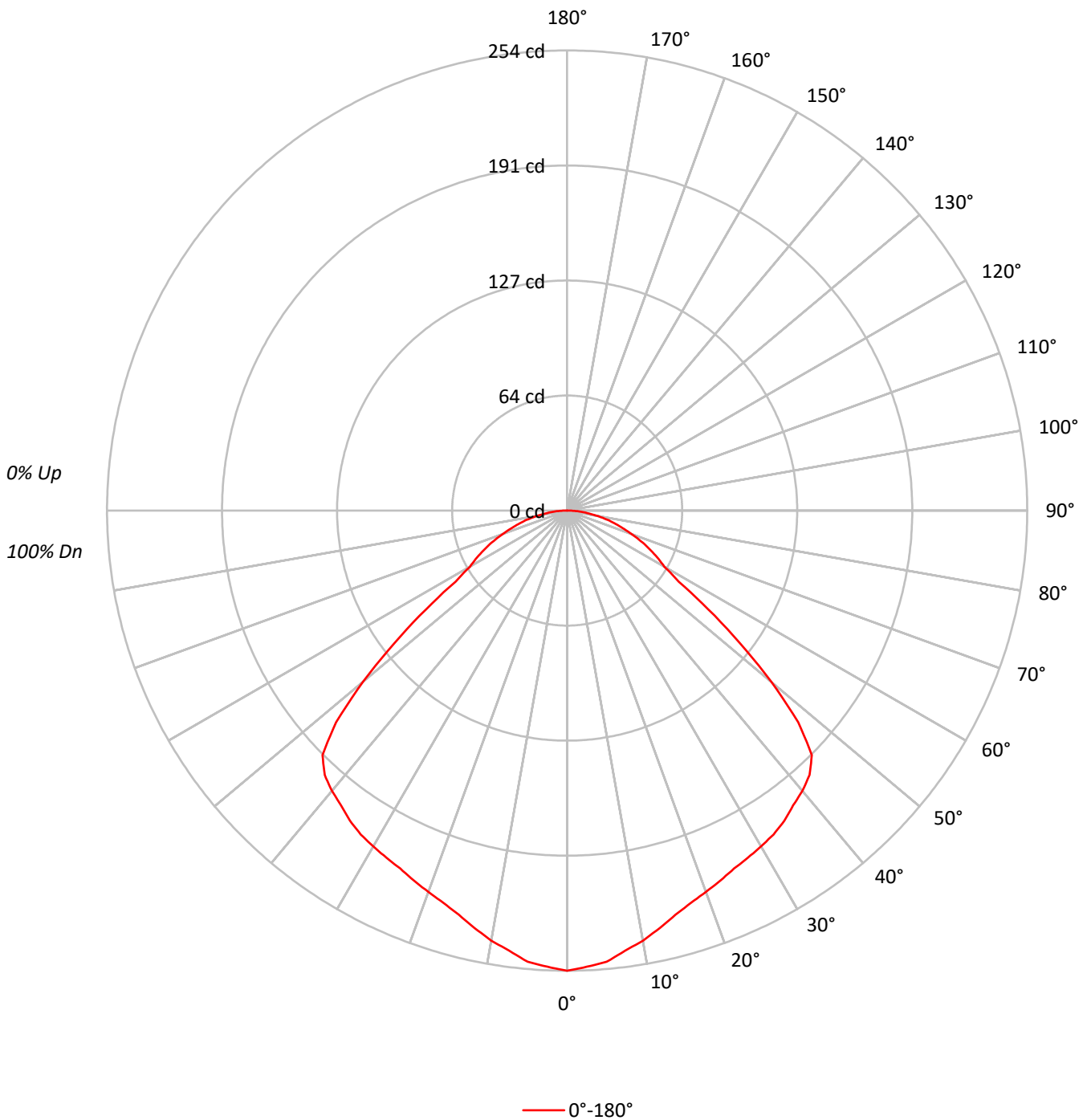
Lumens per Lamp: N/A
Luminaire Lumens: 637.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.45
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0689
Voltage Rise (V): NR
Power Factor: 0.9536
Total Harmonic Distortion (THDi): 23.1
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	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	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73				73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63				63
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42				42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2558
5°	2274
10°	2012
15°	1795
20°	1640
25°	1520
30°	1434
35°	1358
40°	1284
45°	1196
50°	915
55°	592
60°	390
65°	319
70°	249
75°	183
80°	120
85°	59

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1196 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	3.7
10°-20°	65.4	10.3
20°-30°	101.0	15.9
30°-40°	130.8	20.5
40°-50°	142.0	22.3
50°-60°	87.3	13.7
60°-70°	49.5	7.8
70°-80°	28.6	4.5
80°-90°	8.8	1.4
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°	189.9	29.8
0°-40°	320.8	50.4
0°-60°	550.1	86.4
0°-90°	637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	637.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	254	
5°	250	24
15°	231	65
25°	218	101
35°	209	131
45°	191	142
55°	95	87
65°	50	49
75°	27	29
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	254
2.5°	252
5°	250
7.5°	245
10°	241
12.5°	236
15°	231
17.5°	227
20°	224
22.5°	221
25°	218
27.5°	216
30°	214
32.5°	212
35°	209
37.5°	205
40°	202
42.5°	198
45°	191
47.5°	173
50°	147
52.5°	120
55°	95
57.5°	73
60°	62
62.5°	56
65°	50
67.5°	44
70°	38
72.5°	32
75°	27
77.5°	22
80°	17
82.5°	12
85°	8
87.5°	4
90°	0

(END OF REPORT)