

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: G2-2210-802-36

Luminaire Tested: PRLX-417-FR-120-WHST-RHL-TFIN-DW-WH

Test Date: 1/11/2023



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-36
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 1/11/2023
Issue Date: 1/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-417-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

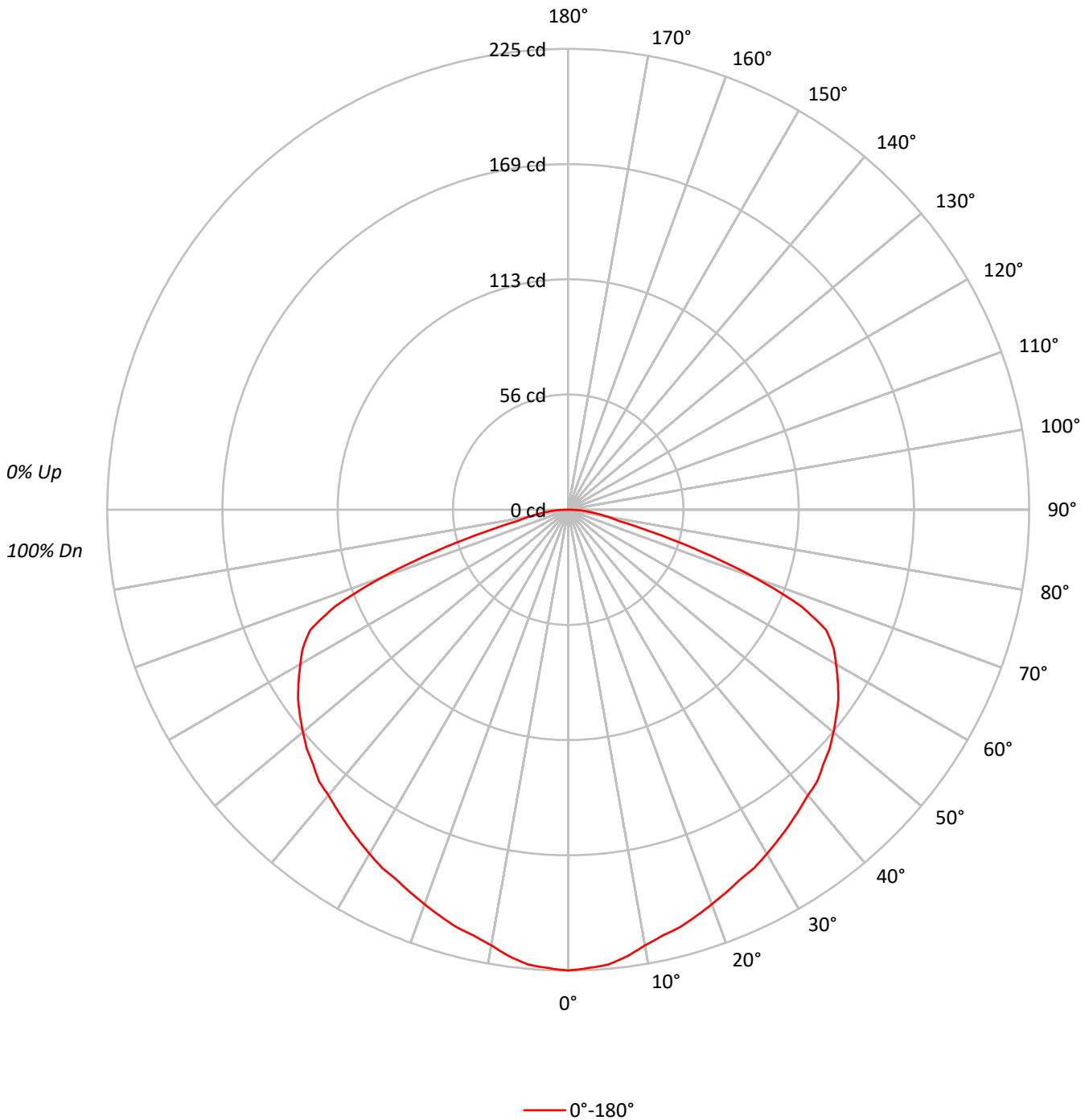
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 763.4 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.5
Luminous Opening: Vertical Cylinder (Dia: 1.58' x H: 0.83')
CIE Type: Direct

Input Watts (W): 8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0694
Voltage Rise (V): NR
Power Factor: 0.9553
Total Harmonic Distortion (THDi): 22.6%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.8
Test Distance: 24 FT

TEST NUMBER: G2-2210-802-36
CATALOG NUMBER: PRLX-417-FR-120-WHST-RHL-TFIN-DW-WH

Luminous Intensity Polar Plot





TEST NUMBER: G2-2210-802-36

CATALOG NUMBER: PRLX-417-FR-120-WHST-RHL-TFIN-DW-WH

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	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77	73	70	68
3	88	77	69	62	86	76	68	61	73	66	60		70	64	59		67	62	58	56
4	80	68	58	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	26	38	31	25		37	30	25		36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23		34	28	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1230
5°	1156
10°	1072
15°	1012
20°	959
25°	915
30°	883
35°	854
40°	831
45°	815
50°	799
55°	784
60°	764
65°	738
70°	546
75°	253
80°	125
85°	65

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 815 cd/sqm



TEST NUMBER: G2-2210-802-36

CATALOG NUMBER: PRLX-417-FR-120-WHST-RHL-TFIN-DW-WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.1	2.8
10°-20°	59.6	7.8
20°-30°	92.1	12.1
30°-40°	118.0	15.5
40°-50°	136.3	17.8
50°-60°	143.8	18.8
60°-70°	131.7	17.3
70°-80°	50.7	6.6
80°-90°	10.2	1.3
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°	172.7	22.6
0°-40°	290.7	38.1
0°-60°	570.8	74.8
0°-90°	763.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	763.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	225	
5°	223	21
15°	211	60
25°	199	92
35°	188	118
45°	176	136
55°	161	144
65°	139	132
75°	42	51
85°	9	10
90°	0	



TEST NUMBER: G2-2210-802-36

CATALOG NUMBER: PRLX-417-FR-120-WHST-RHL-TFIN-DW-WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	225
2.5°	224
5°	223
7.5°	220
10°	216
12.5°	213
15°	211
17.5°	208
20°	205
22.5°	202
25°	199
27.5°	197
30°	194
32.5°	191
35°	188
37.5°	185
40°	182
42.5°	180
45°	176
47.5°	173
50°	169
52.5°	165
55°	161
57.5°	156
60°	151
62.5°	146
65°	139
67.5°	123
70°	97
72.5°	68
75°	42
77.5°	25
80°	19
82.5°	14
85°	9
87.5°	5
90°	0

(END OF REPORT)