

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: G2-2210-802-5

Luminaire Tested: PRLX-409-FIL-120-CL-RHL-TFWHST-DW-WH

Test Date: 01/08/23



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-5
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 01/08/23
Issue Date: 01/08/23
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-409-FIL-120-CL-RHL-TFWHST-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, CLEAR (TRANSLUCENT) SHADE, FILAMENT LAMP
Light Source: 1 PHILIPS 60W CLEAR BULB
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: INTEGRAL TO LAMP

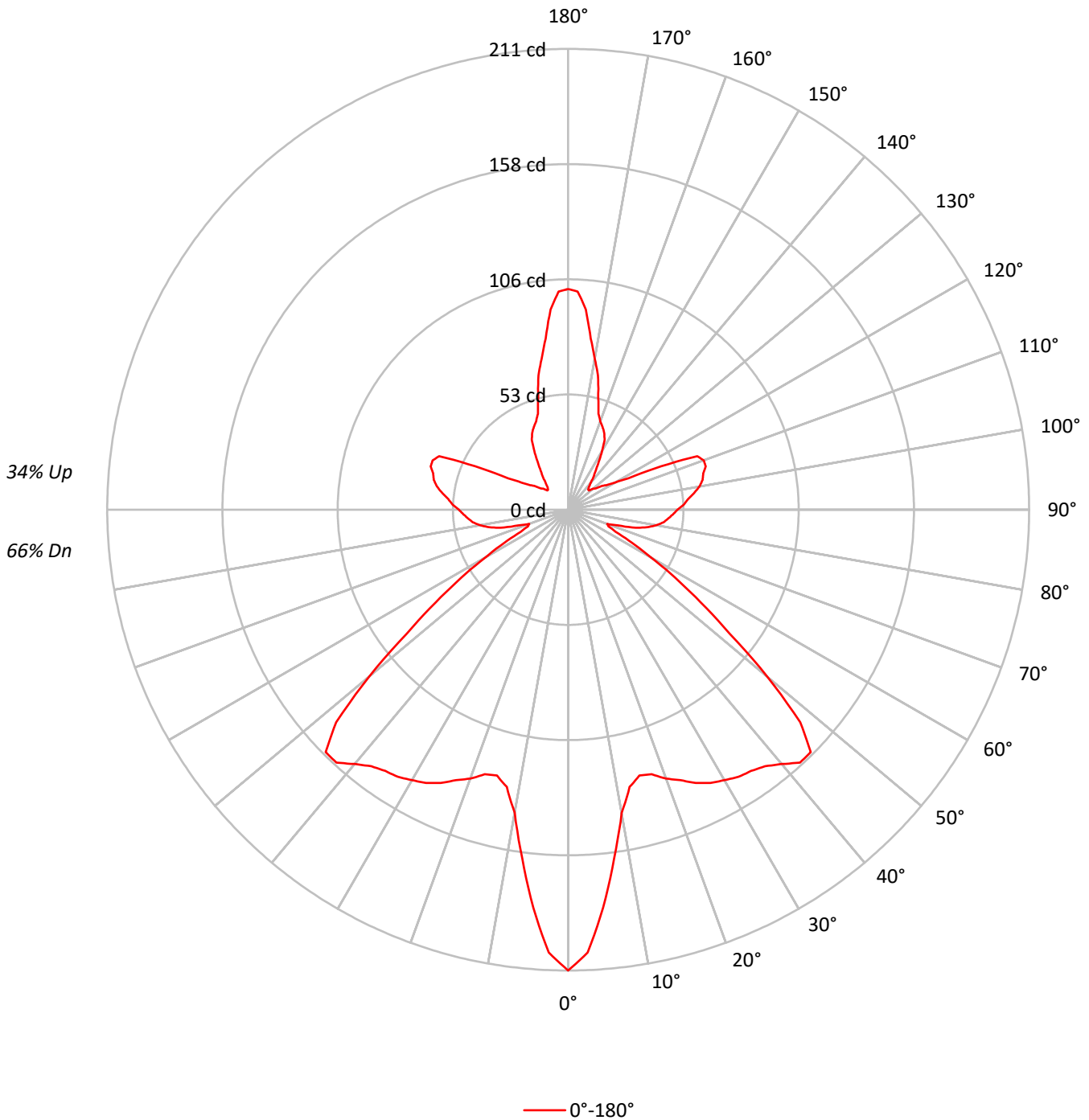
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 758.5 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 1.44
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Semi-Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0795
Voltage Rise (V): NR
Power Factor: 0.815
Total Harmonic Distortion (THDi): 70.6%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.9
Test Distance: 24 FT

TEST NUMBER: G2-2210-802-5
CATALOG NUMBER: PRLX-409-FIL-120-CL-RHL-TFWHST-DW-WH

Luminous Intensity Polar Plot





TEST NUMBER: G2-2210-802-5

CATALOG NUMBER: PRLX-409-FIL-120-CL-RHL-TFWHST-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	111	111	111	111	104	104	104	104	92	92	92		81	81	81		71	71	71	66
1	100	94	90	85	93	89	85	81	78	75	72		69	66	64		60	58	56	52
2	91	82	75	70	85	78	71	66	69	64	60		60	57	53		53	50	47	43
3	83	72	64	58	77	68	61	55	61	55	50		53	49	45		47	43	40	37
4	76	64	56	49	71	61	53	47	54	48	43		48	43	39		42	38	35	32
5	70	57	49	42	65	54	46	40	48	42	37		43	38	34		38	34	30	27
6	64	51	43	37	60	49	41	35	43	37	32		39	33	29		34	30	27	24
7	59	46	38	32	56	44	36	31	39	33	28		35	30	26		31	27	23	21
8	55	42	34	28	52	40	32	27	36	30	25		32	27	23		28	24	21	19
9	51	38	30	25	48	36	29	24	33	27	22		29	24	20		26	22	19	17
10	48	35	28	22	45	33	26	22	30	24	20		27	22	18		24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2125
5°	1664
10°	1177
15°	979
20°	959
25°	962
30°	958
35°	949
40°	966
45°	983
50°	740
55°	461
60°	276
65°	153
70°	124
75°	216
80°	289
85°	342

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 983 cd/sqm



TEST NUMBER: G2-2210-802-5

CATALOG NUMBER: PRLX-409-FIL-120-CL-RHL-TFWHST-DW-WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.1	2.1
10°-20°	36.7	4.8
20°-30°	63.8	8.4
30°-40°	92.2	12.2
40°-50°	114.6	15.1
50°-60°	68.1	9.0
60°-70°	26.8	3.5
70°-80°	32.6	4.3
80°-90°	50.1	6.6
90°-100°	60.4	8.0
100°-110°	67.8	8.9
110°-120°	46.9	6.2
120°-130°	17.1	2.3
130°-140°	10.7	1.4
140°-150°	14.0	1.9
150°-160°	17.6	2.3
160°-170°	15.1	2.0
170°-180°	8.0	1.1
0°-30°	116.6	15.4
0°-40°	208.8	27.5
0°-60°	391.5	51.6
0°-90°	501.0	66.0
90°-120°	175.1	23.1
90°-150°	217.0	28.6
90°-180°	258.0	34.0
0°-180°	758.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	211	
5°	183	16
15°	126	37
25°	138	64
35°	146	92
45°	157	115
55°	74	68
65°	24	27
75°	32	33
85°	46	37
90°	50	28
95°	55	46
105°	64	68
115°	47	47
125°	19	17
135°	13	11
145°	22	14
155°	39	18
165°	53	15
175°	92	8
180°	101	



TEST NUMBER: G2-2210-802-5

CATALOG NUMBER: PRLX-409-FIL-120-CL-RHL-TFWHST-DW-WH

CANDELA DISTRIBUTION (FULL):

	0°
0°	211
2.5°	203
5°	183
7.5°	161
10°	141
12.5°	130
15°	126
17.5°	127
20°	131
22.5°	134
25°	138
27.5°	141
30°	143
32.5°	145
35°	146
37.5°	148
40°	152
42.5°	157
45°	157
47.5°	144
50°	119
52.5°	93
55°	74
57.5°	58
60°	44
62.5°	33
65°	24
67.5°	20
70°	19
72.5°	24
75°	32
77.5°	37
80°	41
82.5°	44
85°	46
87.5°	48
90°	50
92.5°	53
95°	55
97.5°	58
100°	61
102.5°	63
105°	64
107.5°	66
110°	66



TEST NUMBER: G2-2210-802-5

CATALOG NUMBER: PRLX-409-FIL-120-CL-RHL-TFWHST-DW-WH

CANDELA DISTRIBUTION (continued):

	0°
112.5°	64
115°	47
117.5°	31
120°	25
122.5°	21
125°	19
127.5°	16
130°	15
132.5°	13
135°	13
137.5°	14
140°	16
142.5°	19
145°	22
147.5°	26
150°	31
152.5°	36
155°	39
157.5°	41
160°	43
162.5°	46
165°	53
167.5°	63
170°	70
172.5°	79
175°	92
177.5°	100
180°	101

(END OF REPORT)