

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: G2-2210-802-14

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

Test Date: 01/08/23



Test Information

Test Method: LM-79-2019
Report Number: G2-2210-802-14
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-FR-120-CL-RHL-TFWHST-DW-WH
Description: 400-SERIES 3D PRINTED LED LAMP BASED DECORATIVE LUMINAIRE, CLEAR (TRANSLUCENT) 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

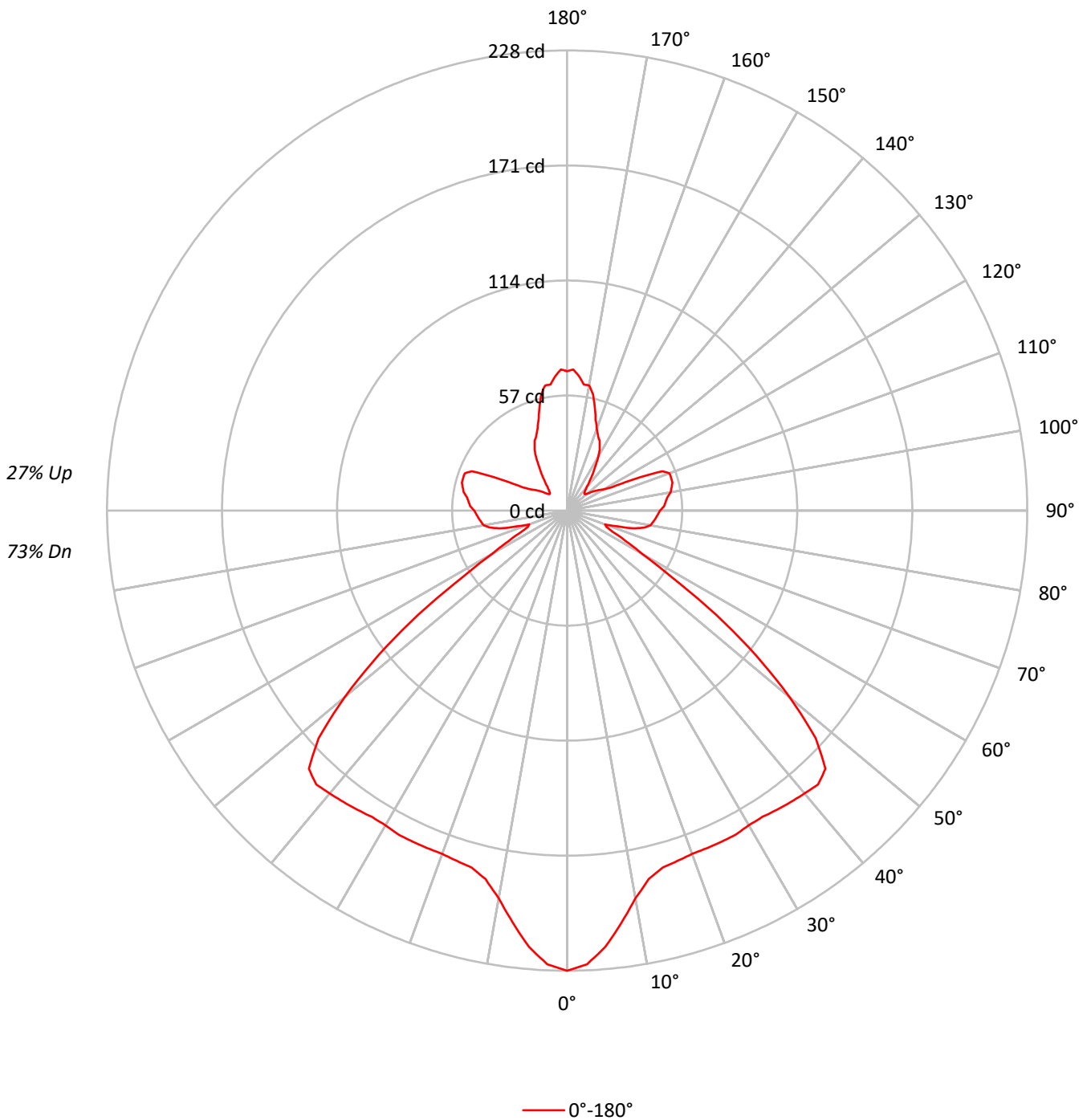
Lumens per Lamp: N/A
Luminaire Lumens: 818.9 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.48
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.17')
CIE Type: Semi-Direct

Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (A_{in}): 0.0685
Voltage Rise (V): NR
Power Factor: 0.9521
Total Harmonic Distortion (THDi): 23.7%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.1
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	113	113	113	113	107	107	107	107	96	96	96		86	86	86		77	77	77	73
1	102	97	92	88	96	92	88	84	82	79	76		74	71	69		66	64	62	58
2	93	85	78	72	88	80	74	69	72	68	64		65	61	58		58	55	53	49
3	85	75	67	61	80	71	64	58	64	59	54		58	53	50		52	49	45	42
4	78	66	58	52	74	63	56	50	57	51	46		52	47	43		47	43	39	36
5	72	59	51	45	68	57	49	43	52	45	40		47	41	37		42	38	35	32
6	66	53	45	39	62	51	43	38	47	40	35		42	37	33		38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31		39	33	29		35	30	27	25
8	57	44	36	30	54	42	35	29	39	32	28		35	30	26		32	28	24	22
9	53	40	32	27	50	39	31	26	35	29	25		32	27	23		30	25	22	20
10	50	37	29	24	47	35	28	24	33	26	22		30	25	21		27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2296
5°	1973
10°	1628
15°	1422
20°	1325
25°	1262
30°	1206
35°	1176
40°	1163
45°	1134
50°	896
55°	561
60°	270
65°	160
70°	131
75°	230
80°	296
85°	327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1134 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	2.4
10°-20°	52.3	6.4
20°-30°	83.7	10.2
30°-40°	113.8	13.9
40°-50°	134.3	16.4
50°-60°	80.4	9.8
60°-70°	27.3	3.3
70°-80°	34.5	4.2
80°-90°	48.0	5.9
90°-100°	53.5	6.5
100°-110°	56.6	6.9
110°-120°	37.6	4.6
120°-130°	15.3	1.9
130°-140°	9.9	1.2
140°-150°	13.8	1.7
150°-160°	17.2	2.1
160°-170°	14.7	1.8
170°-180°	6.2	0.8
0°-30°	156.0	19.0
0°-40°	269.8	32.9
0°-60°	484.5	59.2
0°-90°	594.2	72.6
90°-120°	147.6	18.0
90°-150°	186.6	22.8
90°-180°	225.0	27.5
0°-180°	818.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	228	
5°	217	20
15°	183	52
25°	181	84
35°	181	114
45°	181	134
55°	90	80
65°	25	27
75°	34	34
85°	44	36
90°	46	25
95°	49	41
105°	54	57
115°	37	38
125°	17	15
135°	12	10
145°	22	14
155°	38	17
165°	53	15
175°	67	6
180°	69	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	228
2.5°	225
5°	217
7.5°	206
10°	195
12.5°	187
15°	183
17.5°	182
20°	181
22.5°	181
25°	181
27.5°	181
30°	180
32.5°	180
35°	181
37.5°	182
40°	183
42.5°	184
45°	181
47.5°	167
50°	144
52.5°	118
55°	90
57.5°	61
60°	43
62.5°	33
65°	25
67.5°	21
70°	20
72.5°	26
75°	34
77.5°	39
80°	42
82.5°	43
85°	44
87.5°	45
90°	46
92.5°	48
95°	49
97.5°	50
100°	52
102.5°	53
105°	54
107.5°	54
110°	54



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	51
115°	37
117.5°	25
120°	21
122.5°	19
125°	17
127.5°	15
130°	13
132.5°	12
135°	12
137.5°	13
140°	15
142.5°	18
145°	22
147.5°	26
150°	31
152.5°	35
155°	38
157.5°	40
160°	43
162.5°	47
165°	53
167.5°	59
170°	63
172.5°	63
175°	67
177.5°	70
180°	69

(END OF REPORT)