

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: SHAPER

Report Number: P702086

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

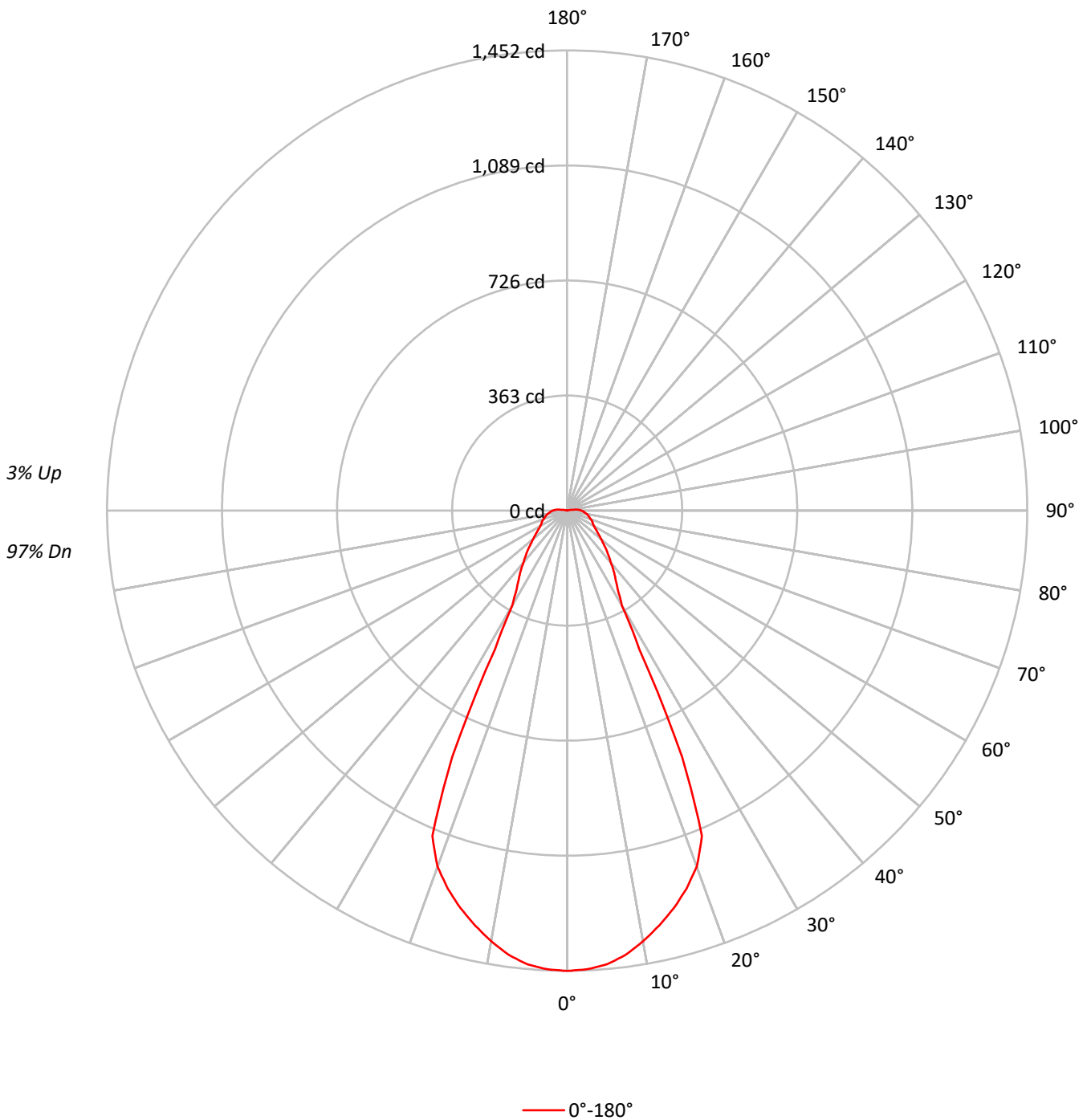
Lumens per Lamp: N/A
Luminaire Lumens: 1529.5 lumens
Efficiency: N/A
Efficacy: 48.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P702086

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	109	105	102	98	107	103	99	96	98	95	93	94	92	90	90	88	86	84
2	102	95	89	85	99	93	88	83	89	85	81	86	82	79	82	80	77	75
3	95	87	80	75	93	85	79	74	82	77	72	79	75	71	76	73	69	67
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63	61
5	84	74	66	61	82	73	66	61	70	64	60	68	63	59	66	62	58	56
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	62	58	54	52
7	75	64	57	52	73	63	56	52	62	56	51	60	55	51	59	54	50	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	55	51	47	45
9	68	57	50	45	66	56	50	45	55	49	45	54	48	44	53	48	44	43
10	64	53	47	43	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	168466
5°	145689
10°	125047
15°	107209
20°	91195
25°	61264
30°	23361
35°	17253
40°	13420
45°	10616
50°	8362
55°	6796
60°	5763
65°	5222
70°	4712
75°	4337
80°	3978
85°	3502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10616 cd/sqm

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CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	8.8
10°-20°	364.4	23.8
20°-30°	360.4	23.6
30°-40°	169.1	11.1
40°-50°	135.0	8.8
50°-60°	104.2	6.8
60°-70°	87.5	5.7
70°-80°	75.1	4.9
80°-90°	58.6	3.8
90°-100°	33.8	2.2
100°-110°	6.1	0.4
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°	860.1	56.2
0°-40°	1029.2	67.3
0°-60°	1268.4	82.9
0°-90°	1489.5	97.4
90°-120°	39.9	2.6
90°-150°	39.9	2.6
90°-180°	40.0	2.6
0°-180°	1529.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1452	
5°	1437	135
15°	1299	364
25°	858	360
35°	267	169
45°	175	135
55°	115	104
65°	88	88
75°	71	75
85°	54	46
90°	44	24
95°	33	22
105°	4	6
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

TEST NUMBER: P702086

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

CANDELA DISTRIBUTION (FULL):

0°	
0°	1452.5
2.5°	1448.7
5°	1437.2
7.5°	1414.2
10°	1379.6
12.5°	1341.2
15°	1299.0
17.5°	1251.1
20°	1195.4
22.5°	1111.0
25°	857.7
27.5°	493.1
30°	345.4
32.5°	297.4
35°	266.7
37.5°	241.8
40°	214.9
42.5°	193.8
45°	174.6
47.5°	155.4
50°	140.1
52.5°	126.6
55°	115.1
57.5°	105.5
60°	97.9
62.5°	92.1
65°	88.3
67.5°	84.4
70°	78.7
72.5°	74.8
75°	71.0
77.5°	67.2
80°	63.3
82.5°	57.6
85°	53.7
87.5°	49.9
90°	44.1
92.5°	40.3
95°	32.6
97.5°	21.1
100°	15.4
102.5°	9.6
105°	3.8
107.5°	1.9
110°	0.0

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CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)