

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: P702211

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

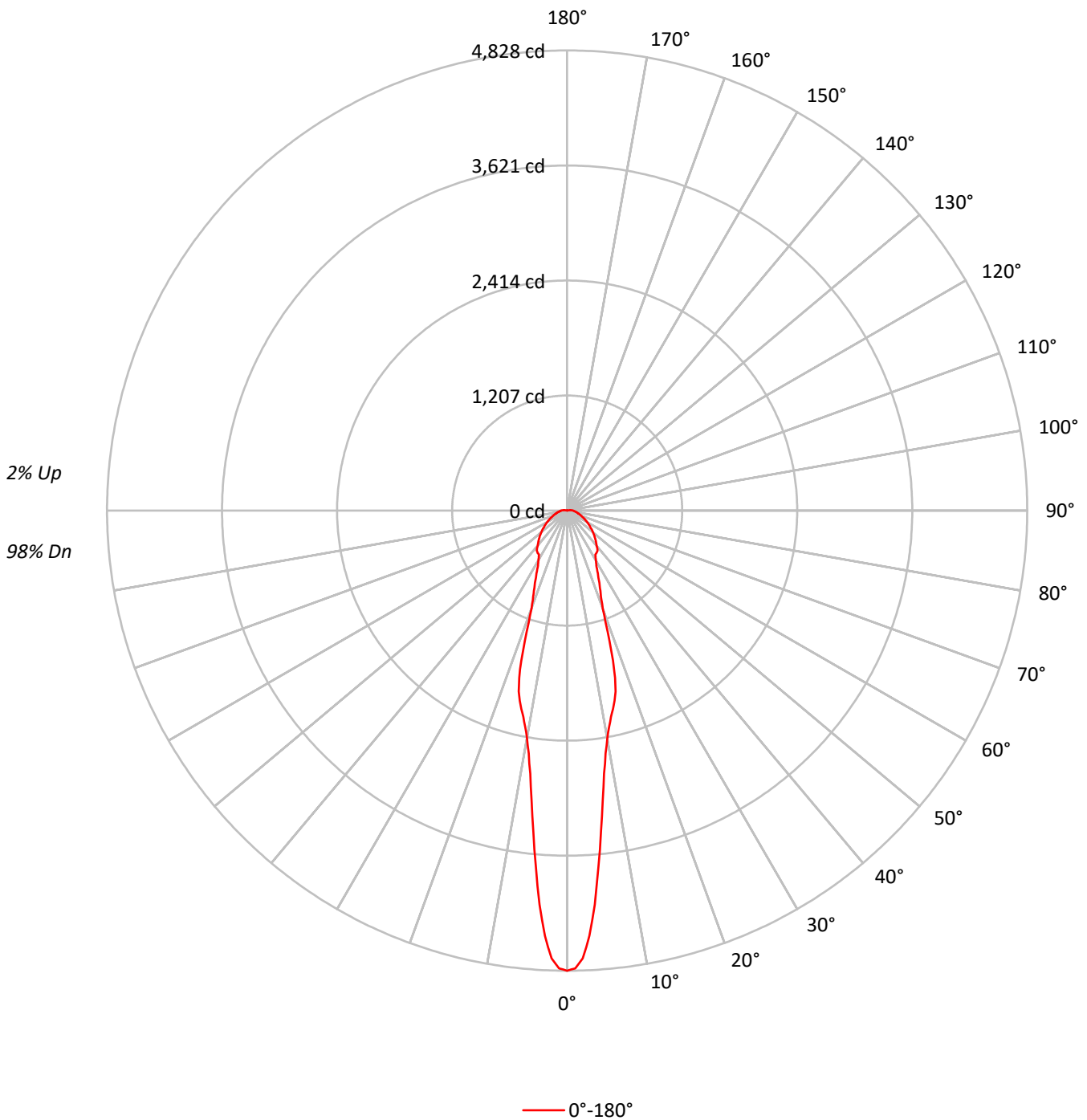
Lumens per Lamp: N/A
Luminaire Lumens: 2573.1 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 47
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: P702211

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ

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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	99	92	87	82	88	84	80		85	81	78		81	78	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	78	70	64	86	76	69	64	74	68	63		71	66	62		69	64	61	59
5	82	71	64	58	80	70	63	58	68	62	57		66	60	56		64	59	55	53
6	77	66	58	53	76	65	58	53	63	57	52		61	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	45
8	69	58	50	45	68	57	50	45	55	49	45		54	49	44		53	48	44	42
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		50	45	41	40
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	560013
5°	381111
10°	219666
15°	162068
20°	83437
25°	55486
30°	40560
35°	34972
40°	30075
45°	25318
50°	21140
55°	17431
60°	14270
65°	11573
70°	9304
75°	7593
80°	6247
85°	5068

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.3	12.1
10°-20°	506.8	19.7
20°-30°	362.6	14.1
30°-40°	337.5	13.1
40°-50°	321.4	12.5
50°-60°	264.6	10.3
60°-70°	194.5	7.6
70°-80°	132.9	5.2
80°-90°	85.6	3.3
90°-100°	47.1	1.8
100°-110°	8.7	0.3
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°	1180.8	45.9
0°-40°	1518.3	59.0
0°-60°	2104.3	81.8
0°-90°	2517.3	97.8
90°-120°	55.8	2.2
90°-150°	55.8	2.2
90°-180°	56.0	2.2
0°-180°	2573.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4828	
5°	3760	311
15°	1964	507
25°	777	363
35°	541	338
45°	416	321
55°	295	265
65°	196	195
75°	124	133
85°	78	68
90°	62	34
95°	44	31
105°	6	9
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4828.4
1°	4803.6
2°	4701.0
3°	4468.0
4°	4144.9
5°	3759.6
6°	3392.9
7°	3063.6
8°	2787.1
9°	2578.9
10°	2423.5
11°	2308.6
12°	2212.3
13°	2134.6
14°	2056.9
15°	1963.7
16°	1827.0
17°	1646.8
18°	1435.5
19°	1239.7
20°	1093.7
21°	1003.6
22°	938.3
23°	882.4
24°	829.6
25°	776.8
27.5°	668.0
30°	599.7
32.5°	550.0
35°	540.6
37.5°	525.1
40°	481.6
42.5°	447.4
45°	416.4
47.5°	385.3
50°	354.2
52.5°	323.1
55°	295.2
57.5°	267.2
60°	242.4
62.5°	217.5
65°	195.7
67.5°	174.0
70°	155.4
72.5°	139.8

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CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ

CANDELA DISTRIBUTION (continued):

	0°
75°	124.3
77.5°	111.9
80°	99.4
82.5°	87.0
85°	77.7
87.5°	68.4
90°	62.1
92.5°	55.9
95°	43.5
97.5°	31.1
100°	21.7
102.5°	12.4
105°	6.2
107.5°	3.1
110°	0.0
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)