

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: P702176

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702176
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-35-D010 / 340-EU4C-3040-9050-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

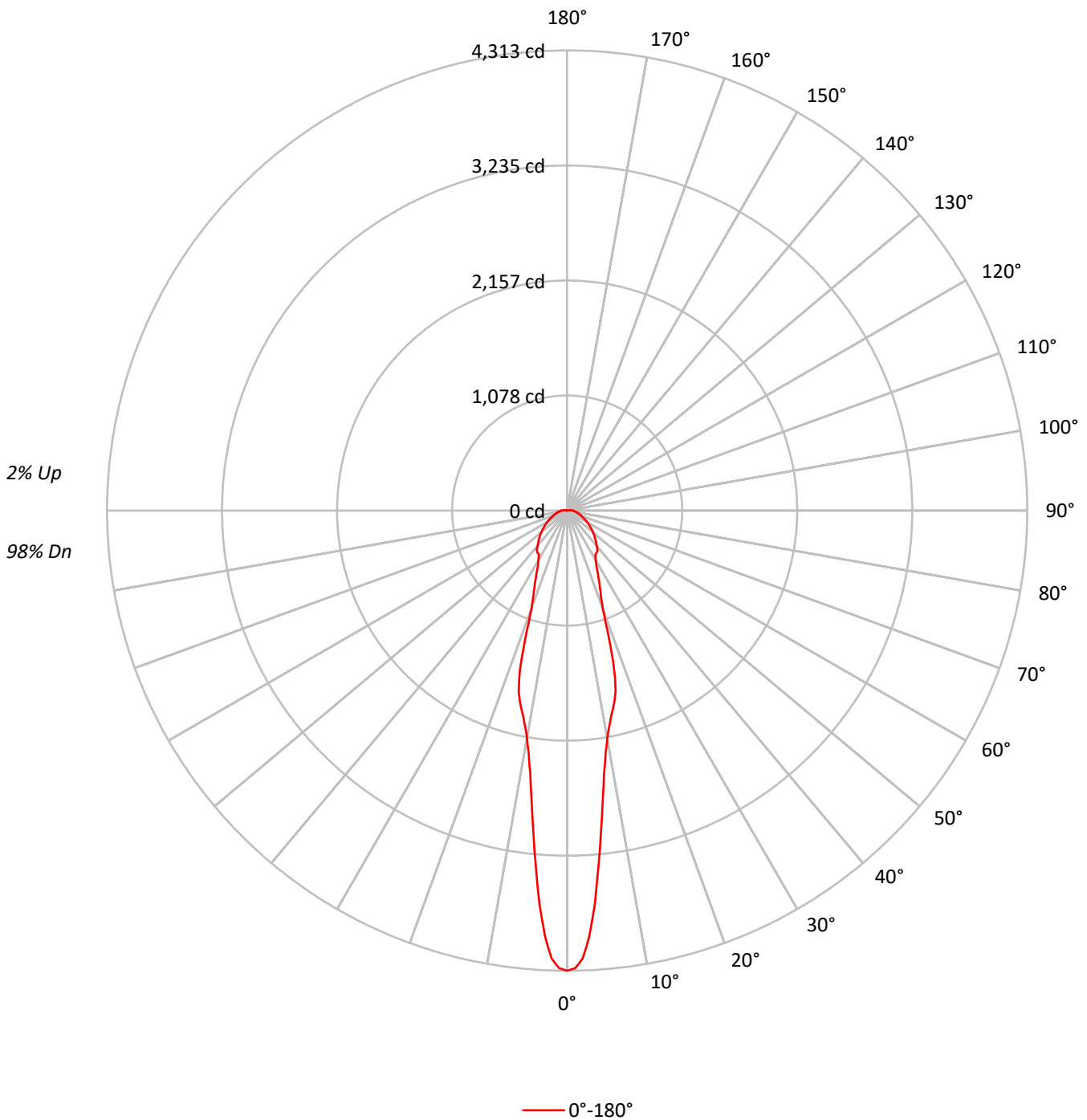
Lumens per Lamp: N/A
Luminaire Lumens: 2298.4 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 40.4
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

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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	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°	500224
5°	340421
10°	196218
15°	144761
20°	74526
25°	49557
30°	36225
35°	31239
40°	26865
45°	22613
50°	18884
55°	15571
60°	12745
65°	10337
70°	8310
75°	6781
80°	5581
85°	4526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22613 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.1	12.1
10°-20°	452.7	19.7
20°-30°	323.9	14.1
30°-40°	301.5	13.1
40°-50°	287.1	12.5
50°-60°	236.3	10.3
60°-70°	173.7	7.6
70°-80°	118.7	5.2
80°-90°	76.4	3.3
90°-100°	42.1	1.8
100°-110°	7.8	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°	1054.7	45.9
0°-40°	1356.2	59.0
0°-60°	1879.6	81.8
0°-90°	2248.5	97.8
90°-120°	49.9	2.2
90°-150°	49.9	2.2
90°-180°	50.0	2.2
0°-180°	2298.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4313	
5°	3358	278
15°	1754	453
25°	694	324
35°	483	301
45°	372	287
55°	264	236
65°	175	174
75°	111	119
85°	69	60
90°	56	30
95°	39	28
105°	6	8
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°	4312.9
1°	4290.7
2°	4199.1
3°	3990.9
4°	3702.3
5°	3358.2
6°	3030.7
7°	2736.5
8°	2489.5
9°	2303.5
10°	2164.8
11°	2062.1
12°	1976.0
13°	1906.7
14°	1837.3
15°	1754.0
16°	1631.9
17°	1470.9
18°	1282.2
19°	1107.4
20°	976.9
21°	896.4
22°	838.2
23°	788.2
24°	741.0
25°	693.8
27.5°	596.7
30°	535.6
32.5°	491.2
35°	482.9
37.5°	469.0
40°	430.2
42.5°	399.6
45°	371.9
47.5°	344.1
50°	316.4
52.5°	288.6
55°	263.7
57.5°	238.7
60°	216.5
62.5°	194.3
65°	174.8
67.5°	155.4
70°	138.8
72.5°	124.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	111.0
77.5°	99.9
80°	88.8
82.5°	77.7
85°	69.4
87.5°	61.1
90°	55.5
92.5°	50.0
95°	38.9
97.5°	27.8
100°	19.4
102.5°	11.1
105°	5.6
107.5°	2.8
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)