

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: P702008

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702008
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-20-D010 / 340-EU4C-1020-9050-4LBW1LI-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

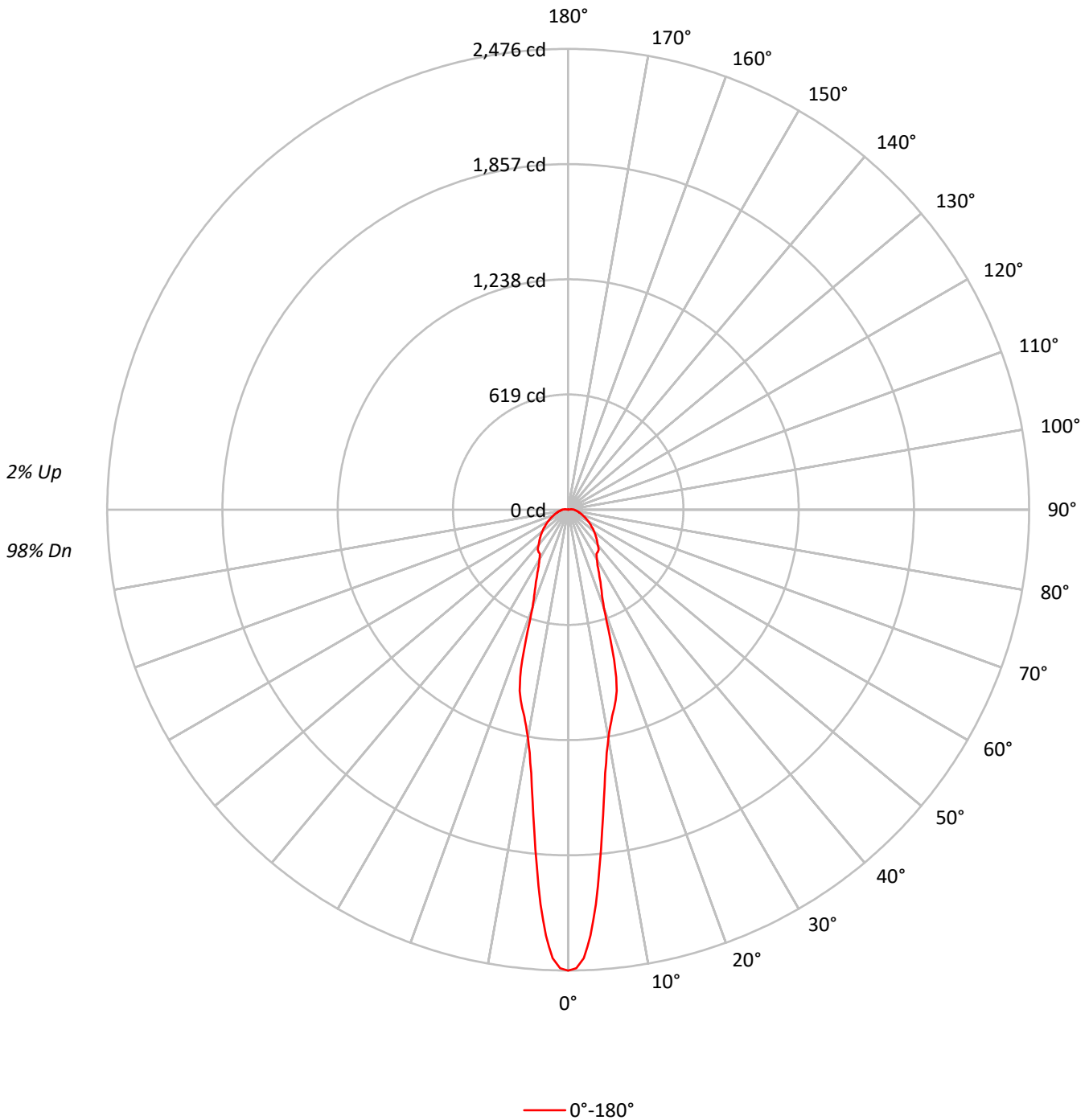
Lumens per Lamp: N/A
Luminaire Lumens: 1319.7 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 21.8
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: P702008

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

Luminous Intensity Polar Plot



TEST NUMBER: P702008

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

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°	287232
5°	195472
10°	112666
15°	83126
20°	42798
25°	28457
30°	20804
35°	17939
40°	15425
45°	12981
50°	10845
55°	8940
60°	7317
65°	5938
70°	4772
75°	3891
80°	3205
85°	2596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12981 cd/sqm

TEST NUMBER: P702008

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	12.1
10°-20°	260.0	19.7
20°-30°	186.0	14.1
30°-40°	173.1	13.1
40°-50°	164.8	12.5
50°-60°	135.7	10.3
60°-70°	99.8	7.6
70°-80°	68.2	5.2
80°-90°	43.9	3.3
90°-100°	24.2	1.8
100°-110°	4.5	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°	605.6	45.9
0°-40°	778.7	59.0
0°-60°	1079.3	81.8
0°-90°	1291.1	97.8
90°-120°	28.6	2.2
90°-150°	28.6	2.2
90°-180°	29.0	2.2
0°-180°	1319.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2476	
5°	1928	160
15°	1007	260
25°	398	186
35°	277	173
45°	214	165
55°	151	136
65°	100	100
75°	64	68
85°	40	35
90°	32	17
95°	22	16
105°	3	4
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: P702008

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

CANDELA DISTRIBUTION (FULL):

0°	
0°	2476.5
1°	2463.7
2°	2411.1
3°	2291.6
4°	2125.9
5°	1928.3
6°	1740.2
7°	1571.3
8°	1429.5
9°	1322.7
10°	1243.0
11°	1184.1
12°	1134.7
13°	1094.8
14°	1055.0
15°	1007.2
16°	937.0
17°	844.6
18°	736.3
19°	635.9
20°	561.0
21°	514.7
22°	481.3
23°	452.6
24°	425.5
25°	398.4
27.5°	342.6
30°	307.6
32.5°	282.1
35°	277.3
37.5°	269.3
40°	247.0
42.5°	229.5
45°	213.5
47.5°	197.6
50°	181.7
52.5°	165.7
55°	151.4
57.5°	137.1
60°	124.3
62.5°	111.6
65°	100.4
67.5°	89.2
70°	79.7
72.5°	71.7

TEST NUMBER: P702008

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

CANDELA DISTRIBUTION (continued):

	0°
75°	63.7
77.5°	57.4
80°	51.0
82.5°	44.6
85°	39.8
87.5°	35.1
90°	31.9
92.5°	28.7
95°	22.3
97.5°	15.9
100°	11.2
102.5°	6.4
105°	3.2
107.5°	1.6
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)