

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: P701922

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

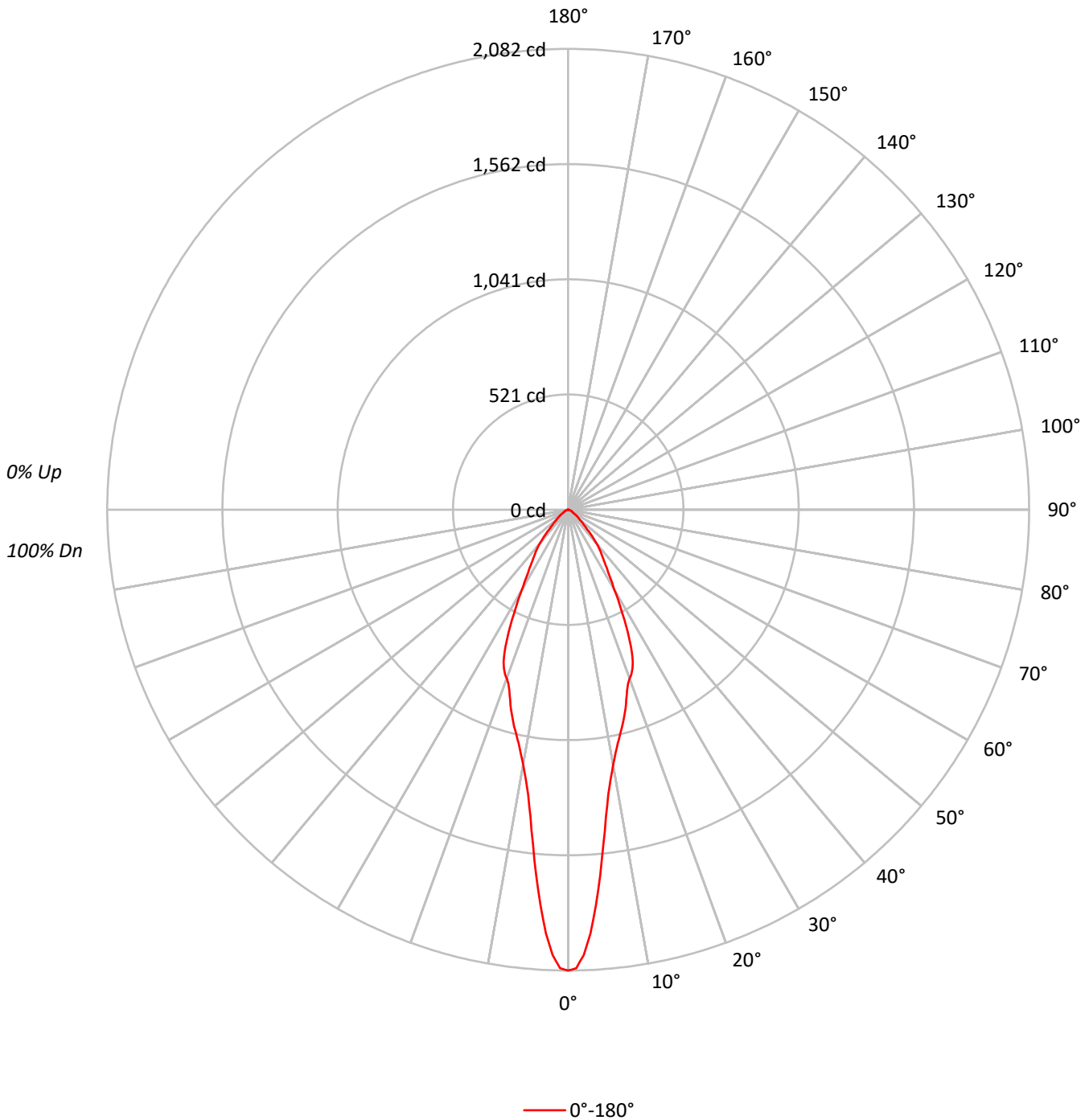
Lumens per Lamp: N/A
Luminaire Lumens: 1040.8 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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: P701922

CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-CC

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	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	82	76	72	80	75	71		78	74	70		76	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65	61	57	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	52		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	241477
5°	192883
10°	137853
15°	116881
20°	100185
25°	84808
30°	55740
35°	39772
40°	30372
45°	17862
50°	11783
55°	8574
60°	5590
65°	5022
70°	4273
75°	3092
80°	2271
85°	1464

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17862 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	13.5
10°-20°	270.7	26.0
20°-30°	292.4	28.1
30°-40°	180.6	17.4
40°-50°	90.4	8.7
50°-60°	37.9	3.6
60°-70°	17.8	1.7
70°-80°	7.8	0.8
80°-90°	1.7	0.2
90°-100°	0.1	0.0
100°-110°	0.4	0.0
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°	703.9	67.6
0°-40°	884.5	85.0
0°-60°	1012.9	97.3
0°-90°	1040.2	99.9
90°-120°	0.6	0.1
90°-150°	0.6	0.1
90°-180°	1.0	0.1
0°-180°	1040.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2082	
5°	1657	141
15°	973	271
25°	663	292
35°	281	181
45°	109	90
55°	42	38
65°	18	18
75°	7	8
85°	1	2
90°	0	0
95°	0	0
105°	0	0
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: P701922

CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-CC

CANDELA DISTRIBUTION (FULL):

0°	
0°	2082.0
1°	2071.7
2°	2013.2
3°	1916.9
4°	1791.9
5°	1656.7
6°	1521.4
7°	1398.7
8°	1301.2
9°	1227.9
10°	1170.5
11°	1121.2
12°	1078.8
13°	1042.1
14°	1008.9
15°	973.4
16°	937.8
17°	897.7
18°	861.0
19°	831.2
20°	811.7
21°	795.7
22°	775.0
23°	746.4
24°	707.4
25°	662.7
27.5°	533.1
30°	416.2
32.5°	335.9
35°	280.9
37.5°	240.8
40°	200.6
42.5°	150.2
45°	108.9
47.5°	82.5
50°	65.3
52.5°	53.9
55°	42.4
57.5°	29.8
60°	24.1
62.5°	20.6
65°	18.3
67.5°	14.9
70°	12.6
72.5°	9.2

TEST NUMBER: P701922

CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-CC

CANDELA DISTRIBUTION (continued):

	0°
75°	6.9
77.5°	5.7
80°	3.4
82.5°	2.3
85°	1.1
87.5°	1.1
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	1.1
102.5°	1.1
105°	0.0
107.5°	0.0
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)