

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: P701824

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701824
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-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

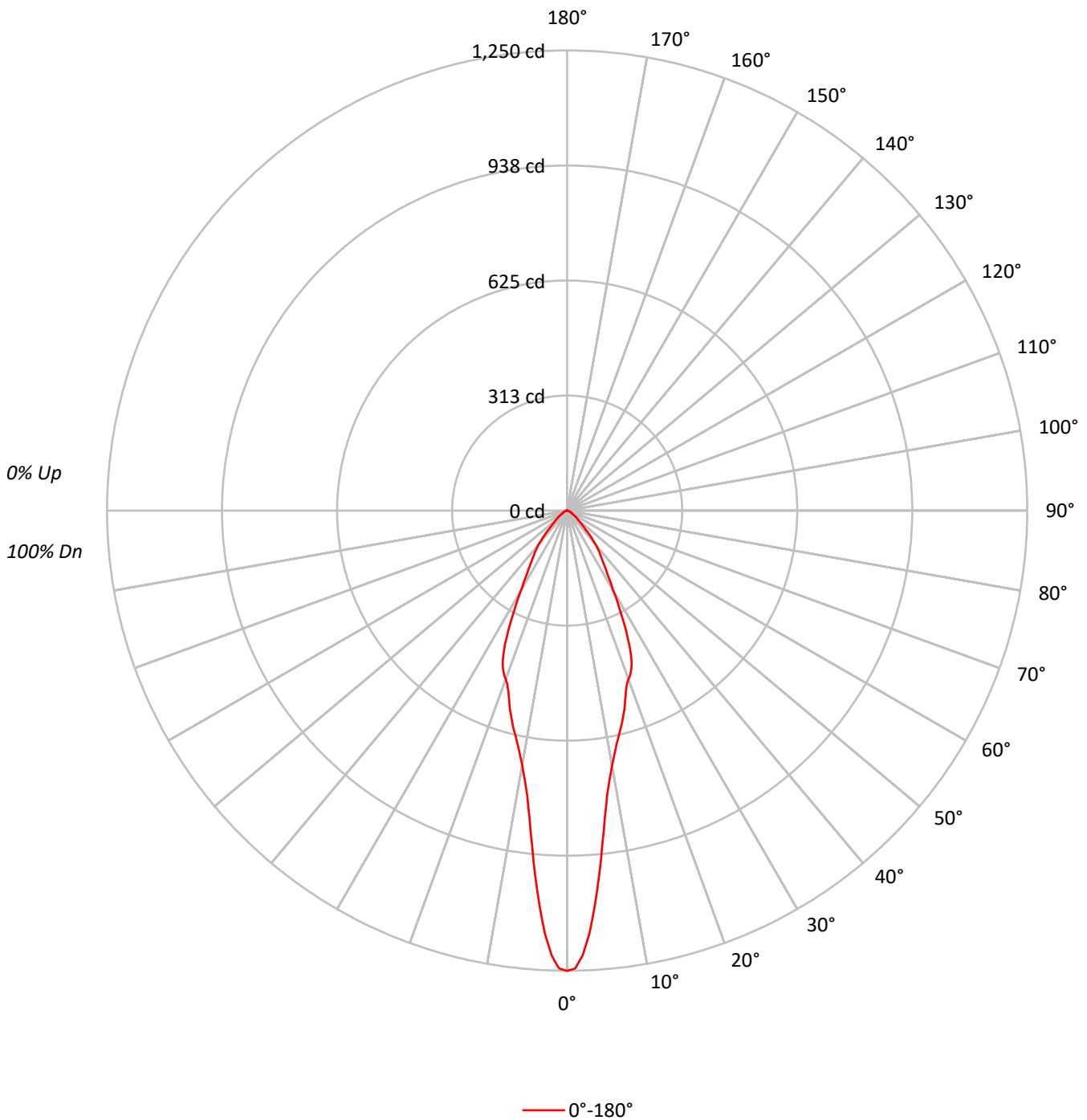
Lumens per Lamp: N/A
Luminaire Lumens: 625.2 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P701824

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-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°	145025
5°	115832
10°	82794
15°	70196
20°	60171
25°	50933
30°	33468
35°	23886
40°	18244
45°	10727
50°	7073
55°	5156
60°	3364
65°	3019
70°	2577
75°	1837
80°	1403
85°	932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10727 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	13.5
10°-20°	162.6	26.0
20°-30°	175.6	28.1
30°-40°	108.5	17.3
40°-50°	54.3	8.7
50°-60°	22.8	3.6
60°-70°	10.7	1.7
70°-80°	4.7	0.8
80°-90°	1.0	0.2
90°-100°	0.1	0.0
100°-110°	0.3	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°	422.7	67.6
0°-40°	531.2	85.0
0°-60°	608.3	97.3
0°-90°	624.8	99.9
90°-120°	0.4	0.1
90°-150°	0.4	0.1
90°-180°	0.0	0.0
0°-180°	625.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1250	
5°	995	85
15°	585	163
25°	398	176
35°	169	108
45°	65	54
55°	26	23
65°	11	11
75°	4	5
85°	1	1
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

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1250.4
1°	1244.2
2°	1209.1
3°	1151.2
4°	1076.2
5°	994.9
6°	913.7
7°	840.0
8°	781.5
9°	737.4
10°	703.0
11°	673.4
12°	647.9
13°	625.9
14°	605.9
15°	584.6
16°	563.2
17°	539.1
18°	517.1
19°	499.2
20°	487.5
21°	477.8
22°	465.4
23°	448.2
24°	424.8
25°	398.0
27.5°	320.2
30°	249.9
32.5°	201.7
35°	168.7
37.5°	144.6
40°	120.5
42.5°	90.2
45°	65.4
47.5°	49.6
50°	39.2
52.5°	32.4
55°	25.5
57.5°	17.9
60°	14.5
62.5°	12.4
65°	11.0
67.5°	9.0
70°	7.6
72.5°	5.5

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CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

CANDELA DISTRIBUTION (continued):

	0°
75°	4.1
77.5°	3.4
80°	2.1
82.5°	1.4
85°	0.7
87.5°	0.7
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.7
102.5°	0.7
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)