

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: P701943

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701943
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-1020-9040-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

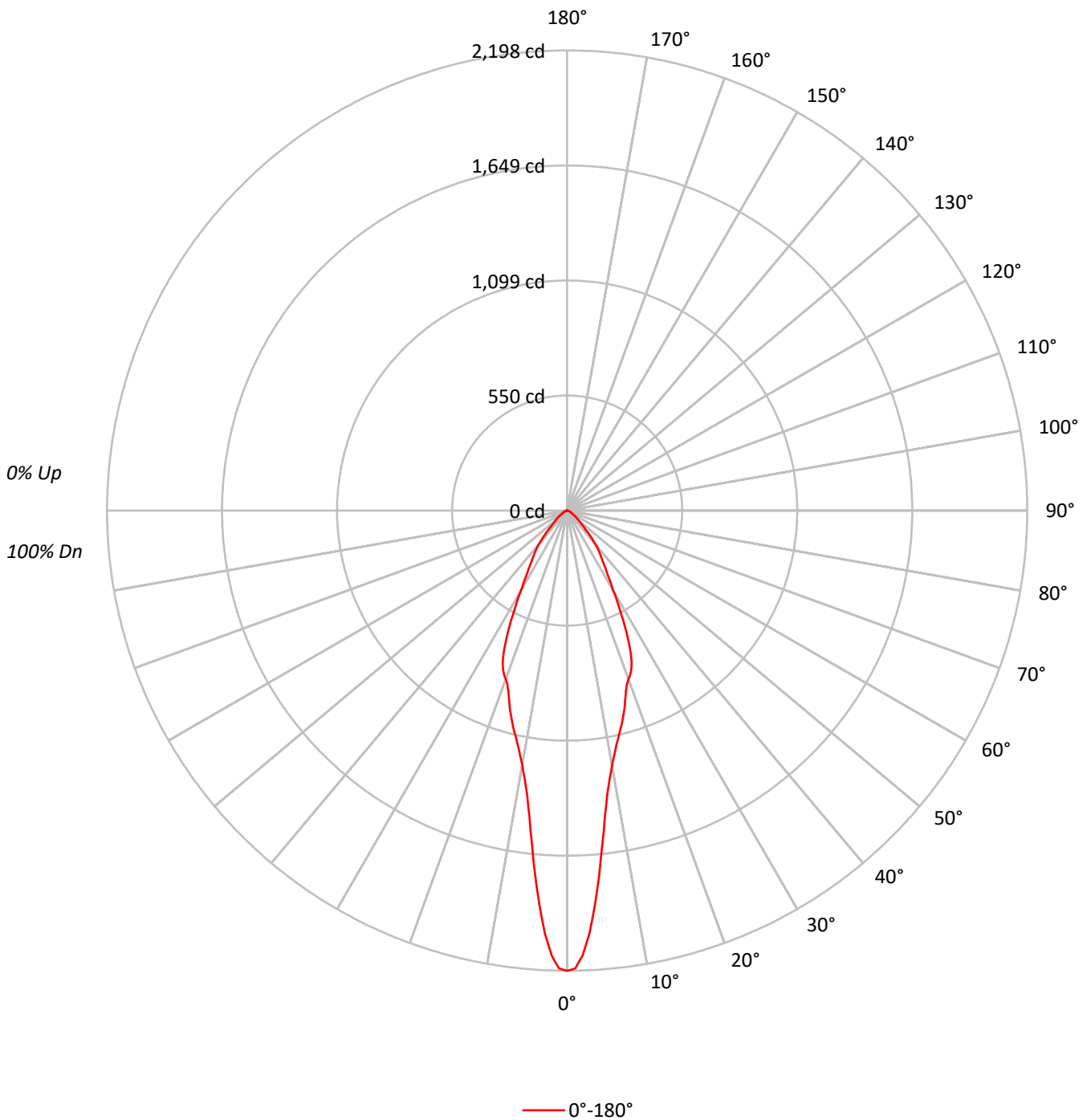
Lumens per Lamp: N/A
Luminaire Lumens: 1099.1 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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

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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	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°	254954
5°	203641
10°	145555
15°	123401
20°	105777
25°	89530
30°	58847
35°	41995
40°	32068
45°	18863
50°	12450
55°	9059
60°	5892
65°	5324
70°	4510
75°	3271
80°	2405
85°	1597

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18863 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	13.5
10°-20°	285.8	26.0
20°-30°	308.7	28.1
30°-40°	190.7	17.3
40°-50°	95.5	8.7
50°-60°	40.1	3.6
60°-70°	18.8	1.7
70°-80°	8.3	0.8
80°-90°	1.8	0.2
90°-100°	0.2	0.0
100°-110°	0.5	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°	743.2	67.6
0°-40°	933.9	85.0
0°-60°	1069.5	97.3
0°-90°	1098.4	99.9
90°-120°	0.6	0.1
90°-150°	0.6	0.1
90°-180°	1.0	0.1
0°-180°	1099.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2198	
5°	1749	149
15°	1028	286
25°	700	309
35°	297	191
45°	115	96
55°	45	40
65°	19	19
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

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2198.2
1°	2187.3
2°	2125.6
3°	2023.9
4°	1892.0
5°	1749.1
6°	1606.3
7°	1476.8
8°	1373.9
9°	1296.4
10°	1235.9
11°	1183.8
12°	1139.0
13°	1100.3
14°	1065.2
15°	1027.7
16°	990.2
17°	947.8
18°	909.1
19°	877.6
20°	857.0
21°	840.1
22°	818.3
23°	788.0
24°	746.9
25°	699.6
27.5°	562.9
30°	439.4
32.5°	354.7
35°	296.6
37.5°	254.2
40°	211.8
42.5°	158.6
45°	115.0
47.5°	87.2
50°	69.0
52.5°	56.9
55°	44.8
57.5°	31.5
60°	25.4
62.5°	21.8
65°	19.4
67.5°	15.7
70°	13.3
72.5°	9.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	7.3
77.5°	6.1
80°	3.6
82.5°	2.4
85°	1.2
87.5°	1.2
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	1.2
102.5°	1.2
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)