

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: P701919

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-8)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

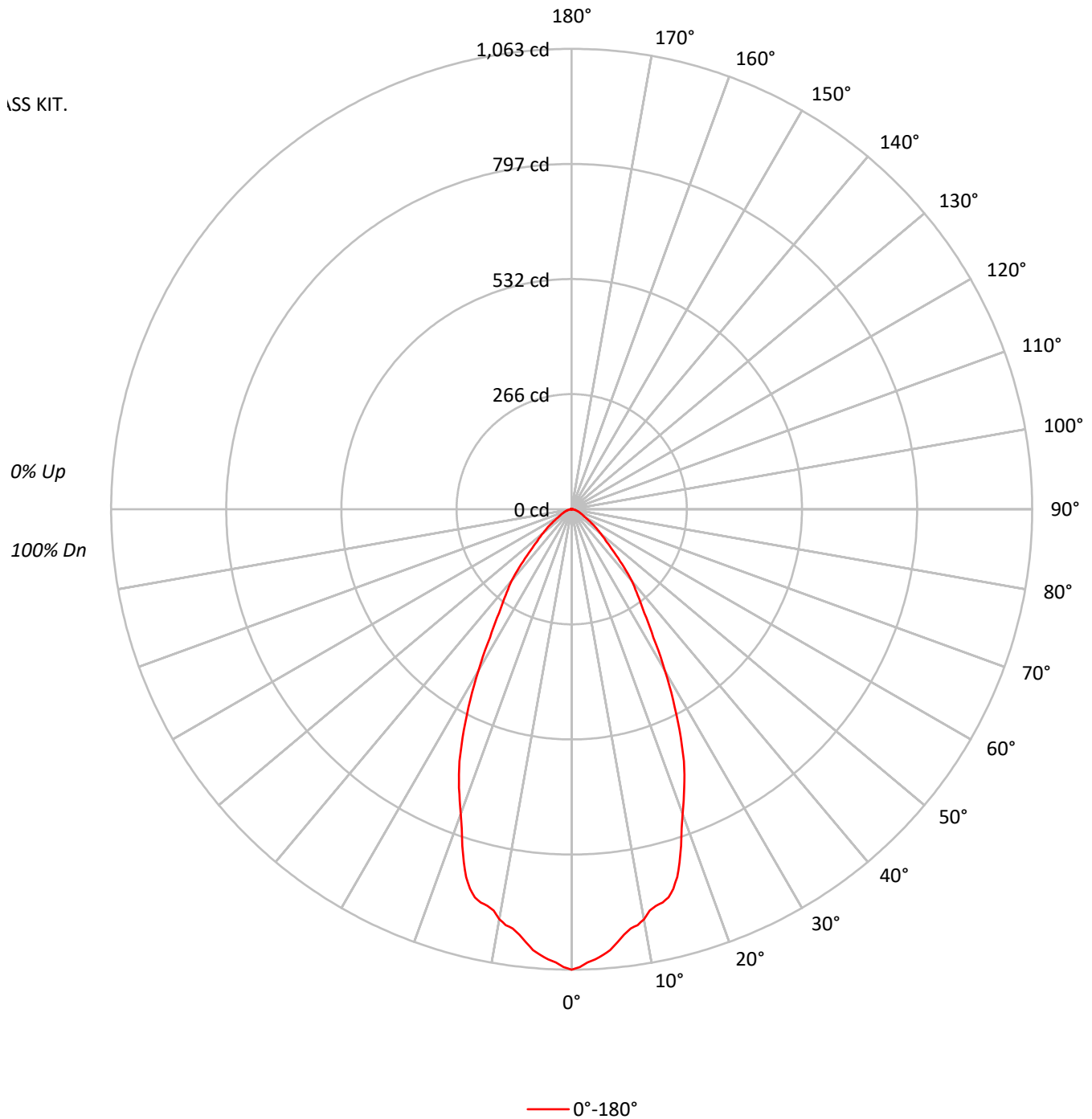
Lumens per Lamp: N/A
Luminaire Lumens: 1002.9 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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: P701919

CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

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	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	101	96	92	104	99	95	91	95	92	89		92	89	87		89	87	85	83
3	100	93	87	83	98	91	86	82	88	84	80		86	82	79		84	81	78	76
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78	75	72	70
5	89	80	73	68	87	79	72	68	77	71	67		75	70	67		73	69	66	64
6	84	74	68	63	82	73	67	63	72	66	62		70	65	62		69	65	61	60
7	79	69	63	58	78	69	62	58	67	62	58		66	61	57		65	60	57	55
8	75	65	58	54	74	64	58	54	63	58	54		62	57	53		61	56	53	52
9	71	61	55	50	70	61	54	50	60	54	50		59	53	50		58	53	50	48
10	68	58	51	47	67	57	51	47	56	51	47		55	50	47		55	50	47	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123302
5°	118953
10°	113203
15°	108872
20°	92373
25°	77053
30°	57682
35°	41415
40°	32673
45°	21668
50°	15824
55°	11223
60°	7724
65°	6641
70°	5799
75°	4974
80°	4074
85°	3992

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21668 cd/sqm

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CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	9.5
10°-20°	247.2	24.6
20°-30°	271.9	27.1
30°-40°	188.5	18.8
40°-50°	107.5	10.7
50°-60°	51.1	5.1
60°-70°	24.2	2.4
70°-80°	11.8	1.2
80°-90°	3.4	0.3
90°-100°	1.2	0.1
100°-110°	0.8	0.1
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°	614.3	61.3
0°-40°	802.9	80.1
0°-60°	961.4	95.9
0°-90°	1000.9	99.8
90°-120°	2.0	0.2
90°-150°	2.0	0.2
90°-180°	2.0	0.2
0°-180°	1002.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1063	
5°	1022	95
15°	907	247
25°	602	272
35°	292	189
45°	132	107
55°	56	51
65°	24	24
75°	11	12
85°	3	3
90°	1	1
95°	1	1
105°	1	1
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: P701919

CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (FULL):

0°	
0°	1063.1
1°	1057.0
2°	1046.9
3°	1040.9
4°	1031.8
5°	1021.7
6°	1005.6
7°	989.4
8°	977.3
9°	972.3
10°	961.2
11°	944.1
12°	936.0
13°	932.0
14°	923.9
15°	906.7
16°	883.5
17°	852.3
18°	817.0
19°	779.7
20°	748.4
21°	721.2
22°	693.9
23°	665.7
24°	636.4
25°	602.1
27.5°	515.4
30°	430.7
32.5°	351.0
35°	292.5
37.5°	250.1
40°	215.8
42.5°	172.5
45°	132.1
47.5°	105.9
50°	87.7
52.5°	71.6
55°	55.5
57.5°	42.4
60°	33.3
62.5°	28.2
65°	24.2
67.5°	20.2
70°	17.1
72.5°	14.1

TEST NUMBER: P701919

CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (continued):

	0°
75°	11.1
77.5°	8.1
80°	6.1
82.5°	4.0
85°	3.0
87.5°	2.0
90°	1.0
92.5°	1.0
95°	1.0
97.5°	1.0
100°	2.0
102.5°	1.0
105°	1.0
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)