

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: P701891

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701891
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-10-D010 / 340-EU4C-1020-9040-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

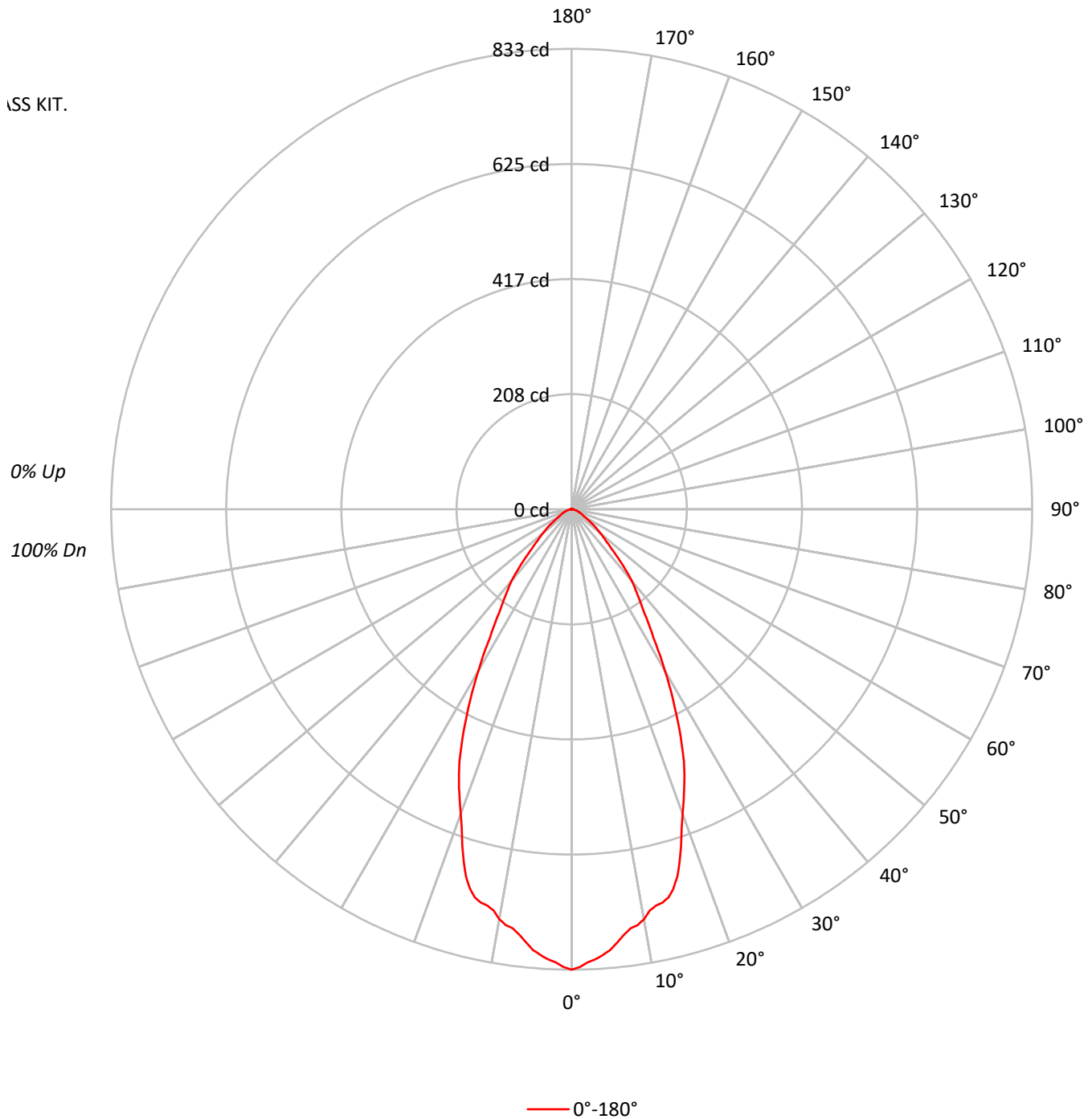
Lumens per Lamp: N/A
Luminaire Lumens: 785.9 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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	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°	96614
5°	93211
10°	88706
15°	85313
20°	72377
25°	60378
30°	45200
35°	32452
40°	25603
45°	16977
50°	12414
55°	8796
60°	6054
65°	5214
70°	4544
75°	3899
80°	3139
85°	3194

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16977 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	9.5
10°-20°	193.7	24.6
20°-30°	213.1	27.1
30°-40°	147.7	18.8
40°-50°	84.2	10.7
50°-60°	40.1	5.1
60°-70°	18.9	2.4
70°-80°	9.3	1.2
80°-90°	2.7	0.3
90°-100°	1.0	0.1
100°-110°	0.6	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°	481.4	61.3
0°-40°	629.1	80.0
0°-60°	753.4	95.9
0°-90°	784.3	99.8
90°-120°	1.6	0.2
90°-150°	1.6	0.2
90°-180°	2.0	0.3
0°-180°	785.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	833	
5°	801	75
15°	710	194
25°	472	213
35°	229	148
45°	104	84
55°	44	40
65°	19	19
75°	9	9
85°	2	2
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

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CANDELA DISTRIBUTION (FULL):

0°	
0°	833.0
1°	828.3
2°	820.4
3°	815.6
4°	808.5
5°	800.6
6°	788.0
7°	775.3
8°	765.8
9°	761.9
10°	753.2
11°	739.8
12°	733.4
13°	730.3
14°	724.0
15°	710.5
16°	692.3
17°	667.8
18°	640.2
19°	610.9
20°	586.4
21°	565.1
22°	543.8
23°	521.6
24°	498.7
25°	471.8
27.5°	403.9
30°	337.5
32.5°	275.0
35°	229.2
37.5°	196.0
40°	169.1
42.5°	135.1
45°	103.5
47.5°	83.0
50°	68.8
52.5°	56.1
55°	43.5
57.5°	33.2
60°	26.1
62.5°	22.1
65°	19.0
67.5°	15.8
70°	13.4
72.5°	11.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	8.7
77.5°	6.3
80°	4.7
82.5°	3.2
85°	2.4
87.5°	1.6
90°	0.8
92.5°	0.8
95°	0.8
97.5°	0.8
100°	1.6
102.5°	0.8
105°	0.8
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)