

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: P701996

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701996
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-20-D010 / 340-EU4C-1020-9035-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

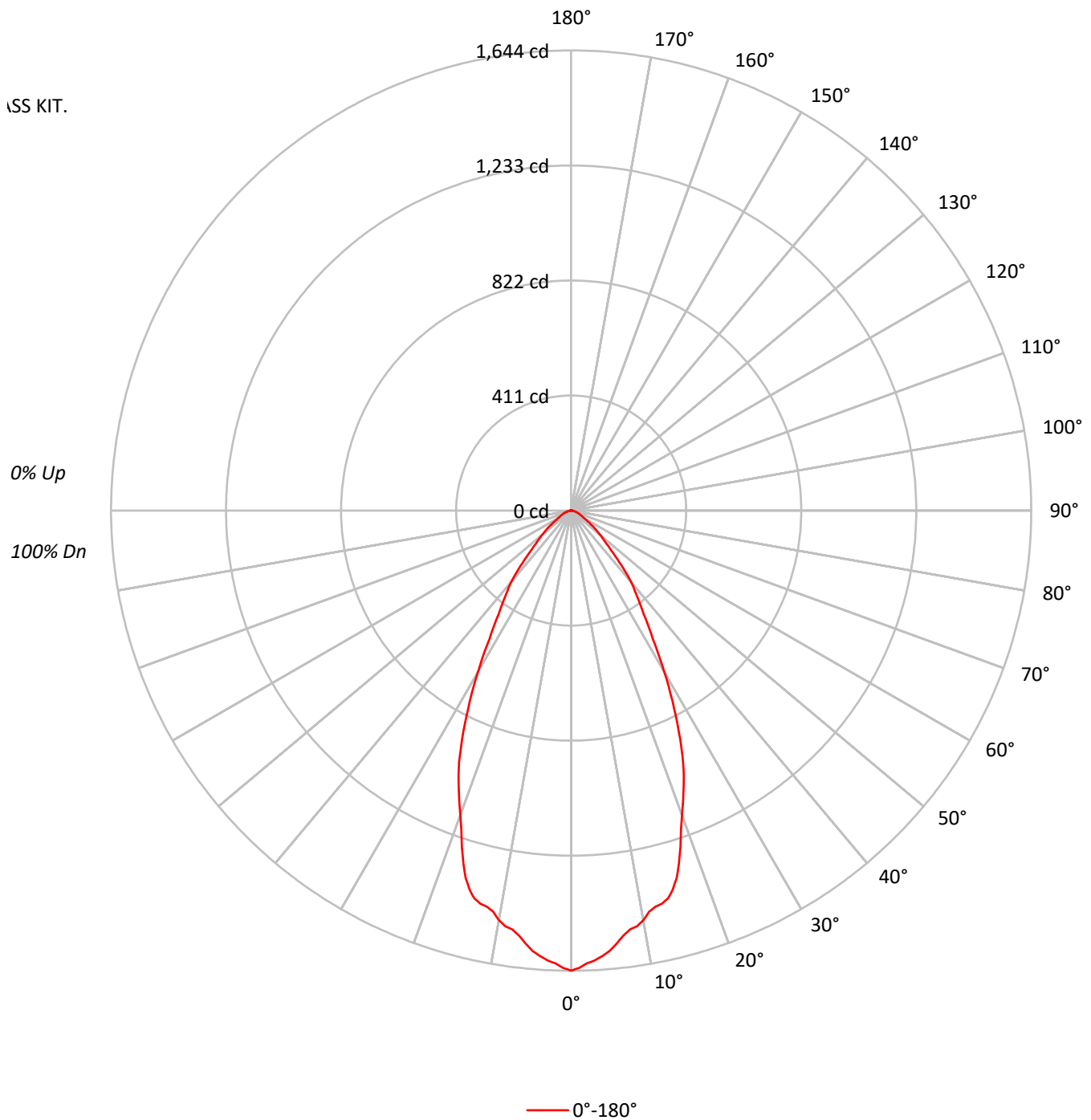
Lumens per Lamp: N/A
Luminaire Lumens: 1550.8 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	84	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°	190642
5°	183918
10°	175033
15°	168345
20°	142817
25°	119143
30°	89181
35°	64027
40°	50524
45°	33510
50°	24485
55°	17350
60°	11946
65°	10264
70°	8986
75°	7708
80°	6278
85°	6255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	9.5
10°-20°	382.2	24.6
20°-30°	420.5	27.1
30°-40°	291.5	18.8
40°-50°	166.2	10.7
50°-60°	79.0	5.1
60°-70°	37.4	2.4
70°-80°	18.3	1.2
80°-90°	5.3	0.3
90°-100°	1.9	0.1
100°-110°	1.3	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°	949.8	61.3
0°-40°	1241.3	80.0
0°-60°	1486.6	95.9
0°-90°	1547.5	99.8
90°-120°	3.2	0.2
90°-150°	3.2	0.2
90°-180°	3.0	0.2
0°-180°	1550.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1644	
5°	1580	147
15°	1402	382
25°	931	420
35°	452	291
45°	204	166
55°	86	79
65°	37	37
75°	17	18
85°	5	5
90°	2	1
95°	2	2
105°	2	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°	1643.7
1°	1634.3
2°	1618.7
3°	1609.4
4°	1595.3
5°	1579.7
6°	1554.8
7°	1529.8
8°	1511.1
9°	1503.3
10°	1486.2
11°	1459.7
12°	1447.2
13°	1441.0
14°	1428.5
15°	1402.0
16°	1366.1
17°	1317.8
18°	1263.2
19°	1205.5
20°	1157.1
21°	1115.0
22°	1072.9
23°	1029.3
24°	984.0
25°	931.0
27.5°	796.9
30°	665.9
32.5°	542.7
35°	452.2
37.5°	386.7
40°	333.7
42.5°	266.7
45°	204.3
47.5°	163.7
50°	135.7
52.5°	110.7
55°	85.8
57.5°	65.5
60°	51.5
62.5°	43.7
65°	37.4
67.5°	31.2
70°	26.5
72.5°	21.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	17.2
77.5°	12.5
80°	9.4
82.5°	6.2
85°	4.7
87.5°	3.1
90°	1.6
92.5°	1.6
95°	1.6
97.5°	1.6
100°	3.1
102.5°	1.6
105°	1.6
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)