

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: P702012

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

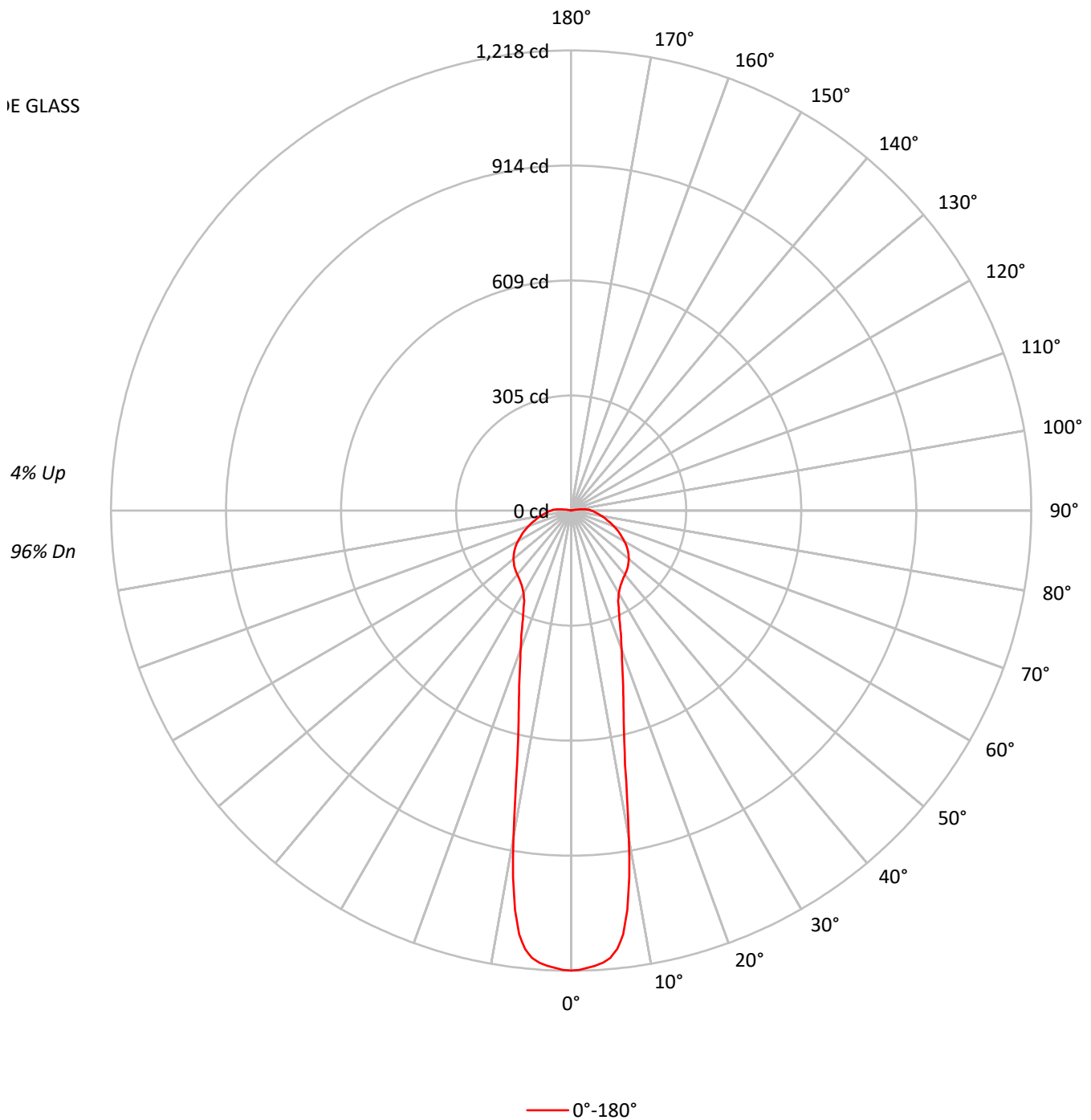
Lumens per Lamp: N/A
Luminaire Lumens: 1234.1 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

TEST NUMBER: P702012

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87	89	86	83	85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47	57	51	46	55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42	52	46	41	51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38	49	42	37	47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35	45	39	34	44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32	42	36	32	41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	141210
5°	120509
10°	79736
15°	44196
20°	29783
25°	21400
30°	17030
35°	15054
40°	13832
45°	12890
50°	11889
55°	10824
60°	9566
65°	8386
70°	7154
75°	6035
80°	5109
85°	4363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12890 cd/sqm

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CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	8.5
10°-20°	153.4	12.4
20°-30°	140.3	11.4
30°-40°	146.7	11.9
40°-50°	163.3	13.2
50°-60°	163.2	13.2
60°-70°	139.9	11.3
70°-80°	105.6	8.6
80°-90°	73.0	5.9
90°-100°	38.7	3.1
100°-110°	5.3	0.4
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°	398.3	32.3
0°-40°	544.9	44.2
0°-60°	871.4	70.6
0°-90°	1190.0	96.4
90°-120°	44.1	3.6
90°-150°	44.1	3.6
90°-180°	44.0	3.6
0°-180°	1234.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1218	
5°	1189	105
15°	536	153
25°	300	140
35°	233	147
45°	212	163
55°	183	163
65°	142	140
75°	99	106
85°	67	57
90°	53	29
95°	37	25
105°	3	5
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°	1217.5
1°	1215.9
2°	1211.2
3°	1206.4
4°	1200.0
5°	1188.8
6°	1166.5
7°	1129.9
8°	1067.7
9°	983.3
10°	879.7
11°	774.5
12°	686.9
13°	623.1
14°	573.7
15°	535.5
16°	500.4
17°	468.5
18°	439.8
19°	412.7
20°	390.4
21°	369.7
22°	350.6
23°	331.5
24°	313.9
25°	299.6
27.5°	269.3
30°	251.8
32.5°	240.6
35°	232.7
37.5°	226.3
40°	221.5
42.5°	216.7
45°	212.0
47.5°	205.6
50°	199.2
52.5°	191.2
55°	183.3
57.5°	173.7
60°	162.5
62.5°	151.4
65°	141.8
67.5°	130.7
70°	119.5
72.5°	110.0

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CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF

CANDELA DISTRIBUTION (continued):

	0°
75°	98.8
77.5°	90.8
80°	81.3
82.5°	73.3
85°	66.9
87.5°	60.6
90°	52.6
92.5°	47.8
95°	36.7
97.5°	23.9
100°	14.3
102.5°	8.0
105°	3.2
107.5°	1.6
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)