

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: P702058

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

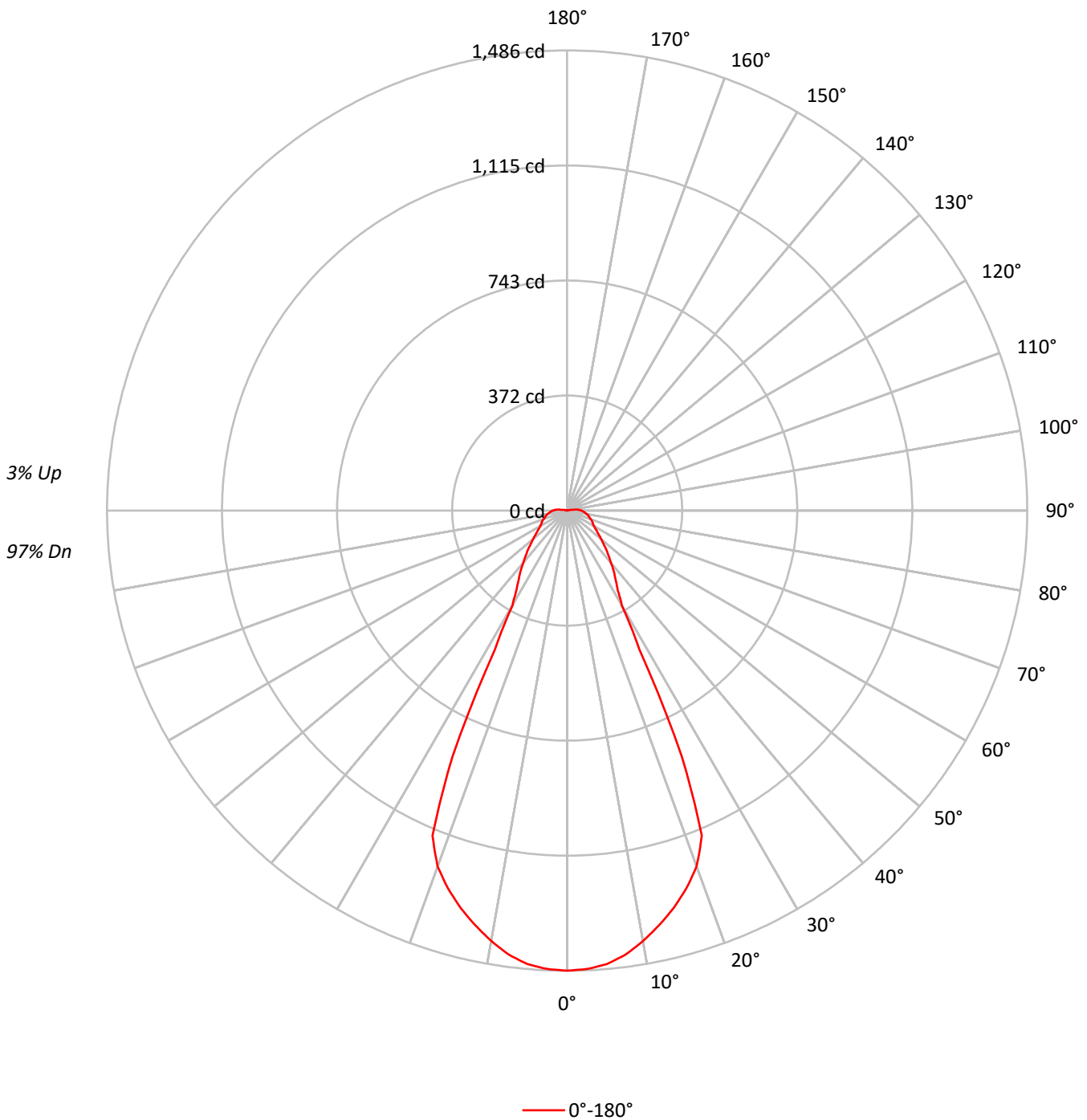
Lumens per Lamp: N/A
Luminaire Lumens: 1564.4 lumens
Efficiency: N/A
Efficacy: 49.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97
1	109	105	102	98	107	103	99	96	98	95	93	94	92	90	90	88	86	84
2	102	95	89	85	99	93	88	83	89	85	81	86	82	79	82	80	77	75
3	95	87	80	75	93	85	79	74	82	77	72	79	75	71	76	73	69	67
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63	61
5	84	74	66	61	82	73	66	61	70	64	60	68	63	59	66	62	58	56
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	62	58	54	52
7	75	64	57	52	73	63	56	52	62	56	51	60	55	51	59	54	50	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	55	51	47	45
9	68	57	50	45	66	56	50	45	55	49	45	54	48	44	53	48	44	43
10	64	53	47	43	63	53	47	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	172305
5°	149004
10°	127902
15°	109652
20°	93278
25°	62664
30°	23895
35°	17648
40°	13726
45°	10859
50°	8553
55°	6956
60°	5893
65°	5340
70°	4819
75°	4435
80°	4072
85°	3587

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10859 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	8.8
10°-20°	372.7	23.8
20°-30°	368.7	23.6
30°-40°	172.9	11.1
40°-50°	138.1	8.8
50°-60°	106.6	6.8
60°-70°	89.5	5.7
70°-80°	76.8	4.9
80°-90°	59.9	3.8
90°-100°	34.6	2.2
100°-110°	6.3	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°	879.8	56.2
0°-40°	1052.7	67.3
0°-60°	1297.3	82.9
0°-90°	1523.6	97.4
90°-120°	40.9	2.6
90°-150°	40.9	2.6
90°-180°	41.0	2.6
0°-180°	1564.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1486	
5°	1470	138
15°	1329	373
25°	877	369
35°	273	173
45°	179	138
55°	118	107
65°	90	90
75°	73	77
85°	55	47
90°	45	25
95°	33	23
105°	4	6
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1485.6
2.5°	1481.7
5°	1469.9
7.5°	1446.4
10°	1411.1
12.5°	1371.8
15°	1328.6
17.5°	1279.6
20°	1222.7
22.5°	1136.3
25°	877.3
27.5°	504.4
30°	353.3
32.5°	304.2
35°	272.8
37.5°	247.3
40°	219.8
42.5°	198.2
45°	178.6
47.5°	159.0
50°	143.3
52.5°	129.5
55°	117.8
57.5°	107.9
60°	100.1
62.5°	94.2
65°	90.3
67.5°	86.4
70°	80.5
72.5°	76.5
75°	72.6
77.5°	68.7
80°	64.8
82.5°	58.9
85°	55.0
87.5°	51.0
90°	45.1
92.5°	41.2
95°	33.4
97.5°	21.6
100°	15.7
102.5°	9.8
105°	3.9
107.5°	2.0
110°	0.0

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CANDELA DISTRIBUTION (continued):

	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)