

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: P702422

Luminaire Tested: 340-6C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-10)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-FF
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

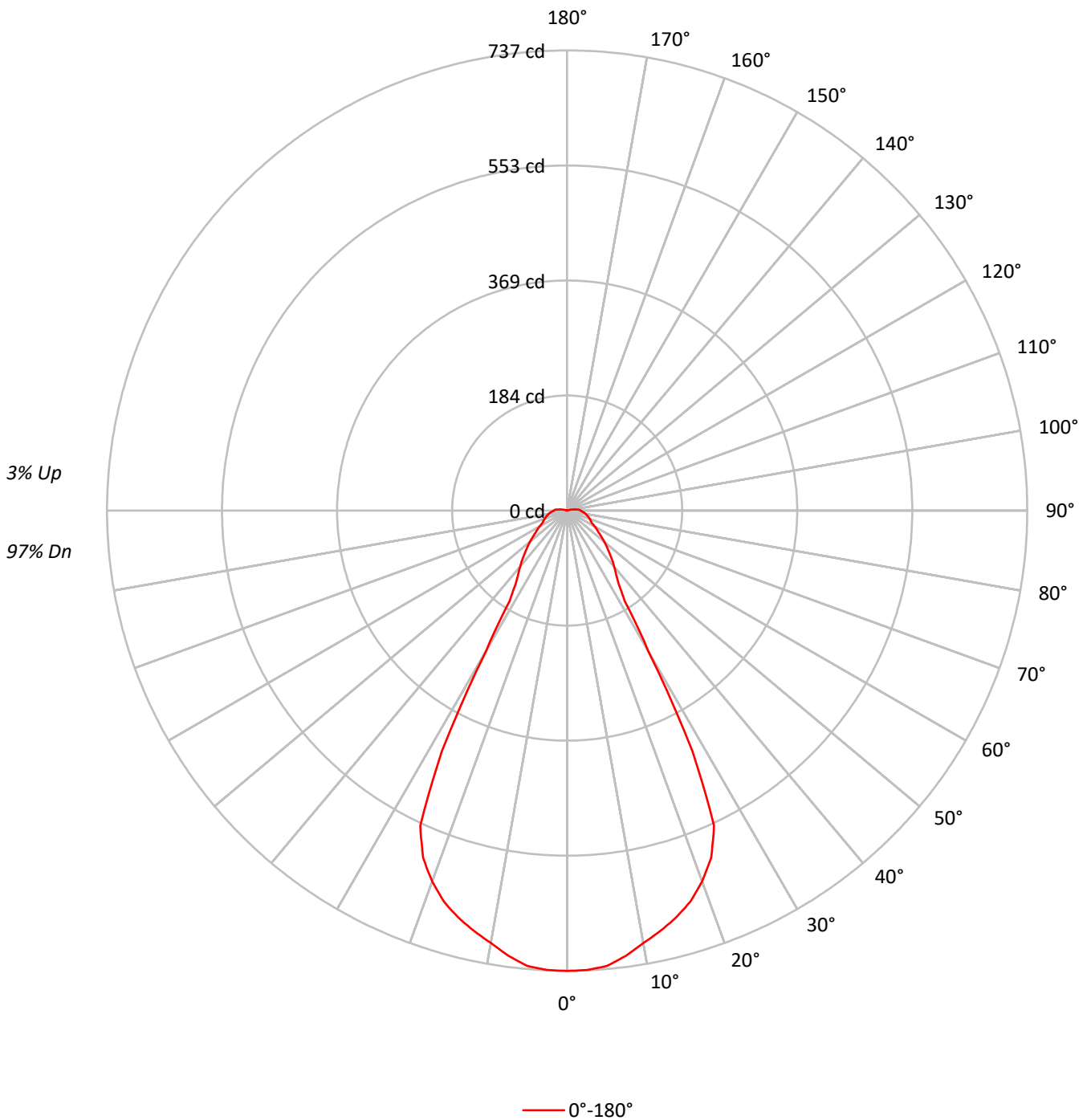
Lumens per Lamp: N/A
Luminaire Lumens: 849.2 lumens
Efficiency: N/A
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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: P702422

CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-FF

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		99	99	99	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	102	96	90	86	100	94	89	84	90	86	82		86	83	80		83	80	78	76
3	96	87	81	76	93	86	80	75	82	77	73		80	75	72		77	73	70	68
4	90	80	73	68	88	79	72	67	76	71	66		74	69	65		71	67	64	62
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		67	62	59	57
6	80	69	62	57	78	68	61	56	66	60	56		64	59	55		63	58	54	53
7	75	64	57	52	74	64	57	52	62	56	52		60	55	51		59	54	51	49
8	71	60	53	49	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	68	57	50	45	66	56	50	45	55	49	45		54	48	45		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°	48108
5°	42847
10°	37579
15°	33394
20°	29350
25°	24513
30°	11001
35°	5858
40°	4654
45°	3745
50°	3009
55°	2385
60°	1987
65°	1679
70°	1542
75°	1411
80°	1285
85°	1154

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3745 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	8.1
10°-20°	189.5	22.3
20°-30°	231.1	27.2
30°-40°	97.8	11.5
40°-50°	74.3	8.7
50°-60°	56.2	6.6
60°-70°	43.0	5.1
70°-80°	36.0	4.2
80°-90°	27.9	3.3
90°-100°	18.6	2.2
100°-110°	5.5	0.7
110°-120°	0.4	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°	489.5	57.6
0°-40°	587.4	69.2
0°-60°	717.9	84.5
0°-90°	824.7	97.1
90°-120°	24.5	2.9
90°-150°	24.5	2.9
90°-180°	25.0	2.9
0°-180°	849.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	737	
5°	732	69
15°	675	190
25°	556	231
35°	144	98
45°	96	74
55°	62	56
65°	43	43
75°	34	36
85°	26	22
90°	21	12
95°	18	13
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	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	737.4
2.5°	736.3
5°	732.1
7.5°	719.3
10°	703.3
12.5°	689.5
15°	674.6
17.5°	656.5
20°	632.0
22.5°	602.2
25°	556.5
27.5°	434.1
30°	260.7
32.5°	171.3
35°	143.6
37.5°	128.7
40°	117.0
42.5°	106.4
45°	95.8
47.5°	86.2
50°	77.7
52.5°	69.2
55°	61.7
57.5°	56.4
60°	51.1
62.5°	45.8
65°	42.6
67.5°	40.4
70°	38.3
72.5°	36.2
75°	34.0
77.5°	31.9
80°	29.8
82.5°	27.7
85°	25.5
87.5°	23.4
90°	21.3
92.5°	20.2
95°	18.1
97.5°	13.8
100°	10.6
102.5°	7.4
105°	4.3
107.5°	3.2
110°	1.1

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CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-FF

CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.1
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)