

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: P701946

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701946
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-15-D010 / 340-EU4C-1020-9040-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

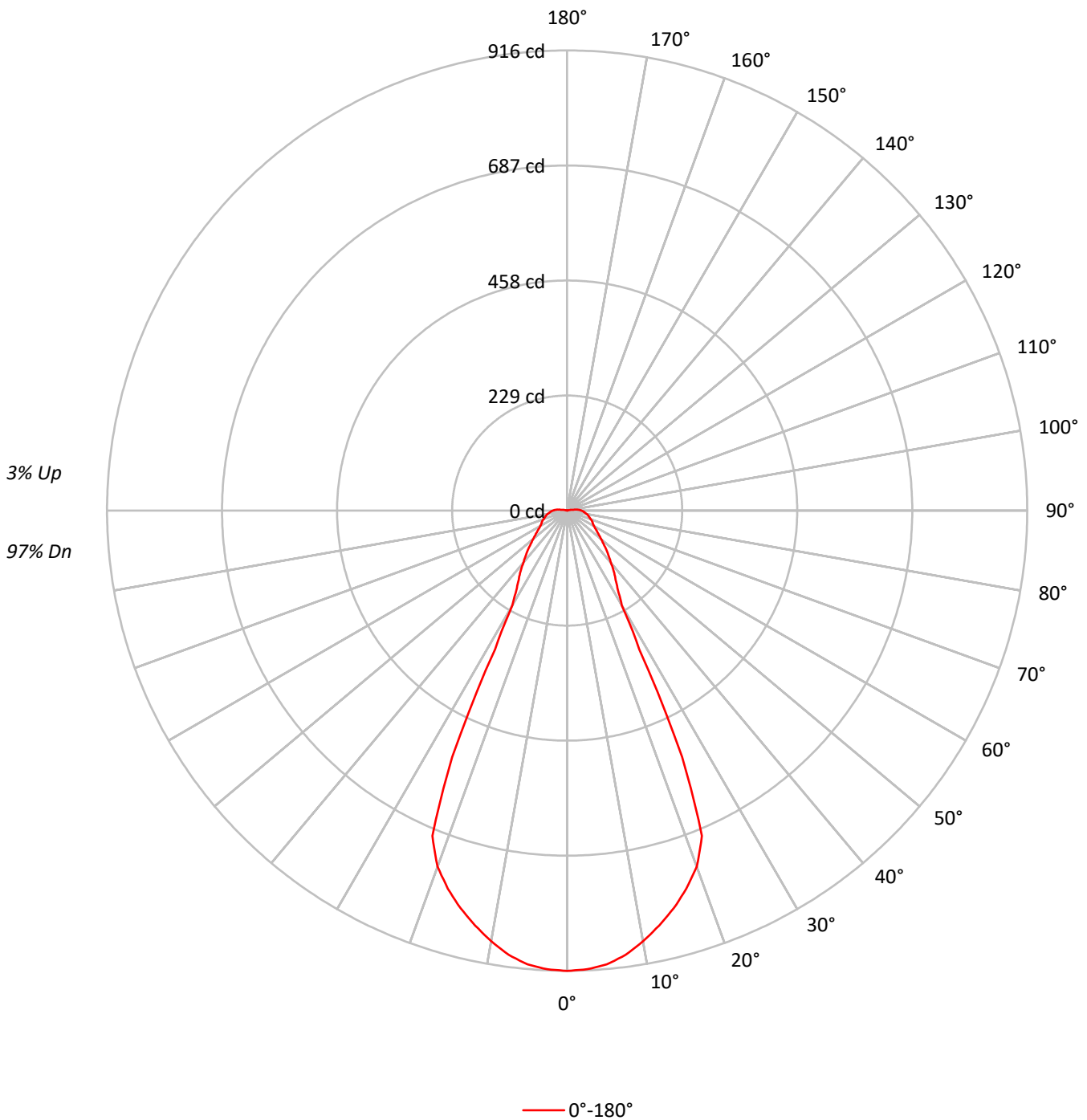
Lumens per Lamp: N/A
Luminaire Lumens: 964.9 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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

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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°	106275
5°	91902
10°	78884
15°	67635
20°	57529
25°	38650
30°	14738
35°	10887
40°	8468
45°	6700
50°	5276
55°	4287
60°	3632
65°	3294
70°	2969
75°	2737
80°	2508
85°	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6700 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	8.8
10°-20°	229.9	23.8
20°-30°	227.4	23.6
30°-40°	106.7	11.1
40°-50°	85.2	8.8
50°-60°	65.7	6.8
60°-70°	55.2	5.7
70°-80°	47.3	4.9
80°-90°	37.0	3.8
90°-100°	21.3	2.2
100°-110°	3.9	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°	542.6	56.2
0°-40°	649.3	67.3
0°-60°	800.2	82.9
0°-90°	939.7	97.4
90°-120°	25.2	2.6
90°-150°	25.2	2.6
90°-180°	25.0	2.6
0°-180°	964.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	916	
5°	907	85
15°	820	230
25°	541	227
35°	168	107
45°	110	85
55°	73	66
65°	56	55
75°	45	47
85°	34	29
90°	28	15
95°	21	14
105°	2	4
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°	916.3
2.5°	913.9
5°	906.6
7.5°	892.1
10°	870.3
12.5°	846.1
15°	819.5
17.5°	789.2
20°	754.1
22.5°	700.9
25°	541.1
27.5°	311.1
30°	217.9
32.5°	187.6
35°	168.3
37.5°	152.5
40°	135.6
42.5°	122.3
45°	110.2
47.5°	98.0
50°	88.4
52.5°	79.9
55°	72.6
57.5°	66.6
60°	61.7
62.5°	58.1
65°	55.7
67.5°	53.3
70°	49.6
72.5°	47.2
75°	44.8
77.5°	42.4
80°	39.9
82.5°	36.3
85°	33.9
87.5°	31.5
90°	27.8
92.5°	25.4
95°	20.6
97.5°	13.3
100°	9.7
102.5°	6.1
105°	2.4
107.5°	1.2
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)