

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: P701939

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701939
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-1020-9035-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

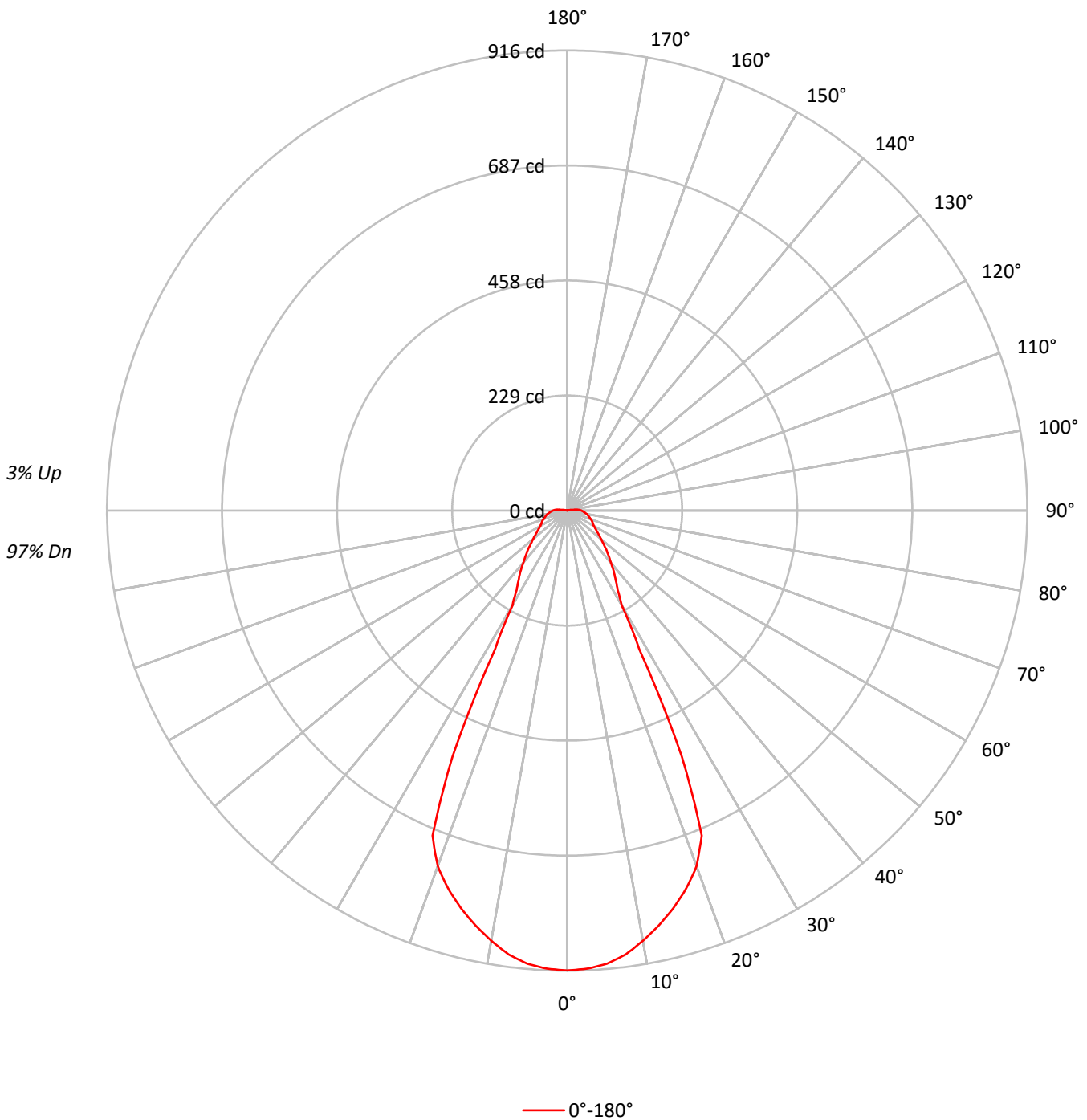
Lumens per Lamp: N/A
Luminaire Lumens: 963.9 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	106183
5°	91821
10°	78812
15°	67569
20°	57476
25°	38614
30°	14724
35°	10875
40°	8455
45°	6688
50°	5270
55°	4287
60°	3632
65°	3288
70°	2969
75°	2731
80°	2508
85°	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6688 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	8.8
10°-20°	229.6	23.8
20°-30°	227.2	23.6
30°-40°	106.5	11.1
40°-50°	85.1	8.8
50°-60°	65.7	6.8
60°-70°	55.1	5.7
70°-80°	47.3	4.9
80°-90°	36.9	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°	542.1	56.2
0°-40°	648.7	67.3
0°-60°	799.4	82.9
0°-90°	938.8	97.4
90°-120°	25.2	2.6
90°-150°	25.2	2.6
90°-180°	25.0	2.6
0°-180°	963.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	916	
5°	906	85
15°	819	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°	915.5
2.5°	913.0
5°	905.8
7.5°	891.3
10°	869.5
12.5°	845.3
15°	818.7
17.5°	788.5
20°	753.4
22.5°	700.2
25°	540.6
27.5°	310.8
30°	217.7
32.5°	187.4
35°	168.1
37.5°	152.4
40°	135.4
42.5°	122.1
45°	110.0
47.5°	98.0
50°	88.3
52.5°	79.8
55°	72.6
57.5°	66.5
60°	61.7
62.5°	58.0
65°	55.6
67.5°	53.2
70°	49.6
72.5°	47.2
75°	44.7
77.5°	42.3
80°	39.9
82.5°	36.3
85°	33.9
87.5°	31.4
90°	27.8
92.5°	25.4
95°	20.6
97.5°	13.3
100°	9.7
102.5°	6.0
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)