

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: P702450

Luminaire Tested: 340-6C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702450
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-1020-9040-4LBW1LI-FF
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

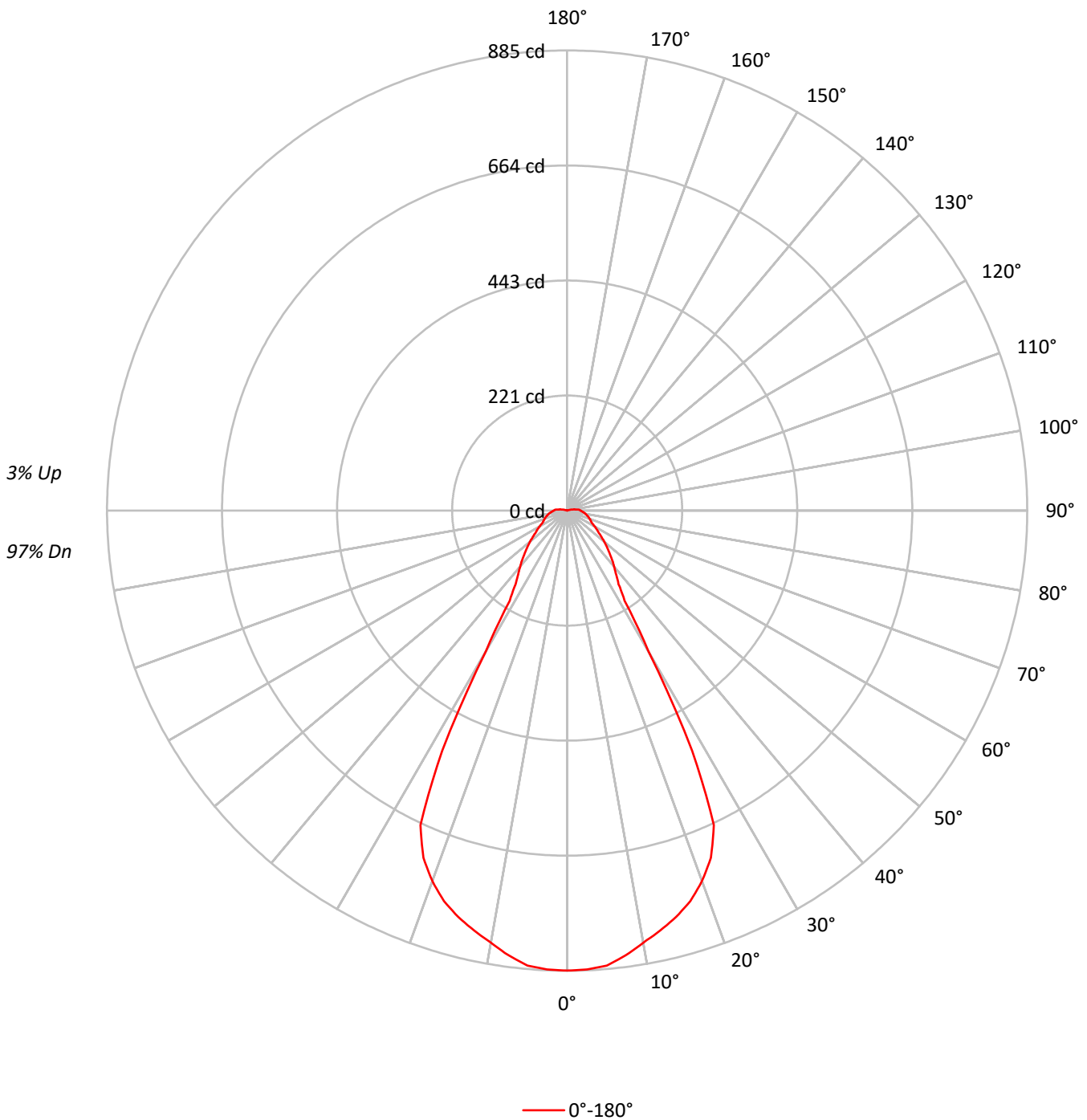
Lumens per Lamp: N/A
Luminaire Lumens: 1018.8 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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

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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		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	83	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°	57712
5°	51403
10°	45087
15°	40062
20°	35215
25°	29407
30°	13195
35°	7029
40°	5584
45°	4492
50°	3609
55°	2861
60°	2384
65°	2014
70°	1852
75°	1693
80°	1539
85°	1384

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4492 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	8.1
10°-20°	227.4	22.3
20°-30°	277.3	27.2
30°-40°	117.4	11.5
40°-50°	89.1	8.7
50°-60°	67.5	6.6
60°-70°	51.6	5.1
70°-80°	43.2	4.2
80°-90°	33.4	3.3
90°-100°	22.3	2.2
100°-110°	6.6	0.6
110°-120°	0.5	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°	587.3	57.6
0°-40°	704.7	69.2
0°-60°	861.3	84.5
0°-90°	989.4	97.1
90°-120°	29.4	2.9
90°-150°	29.4	2.9
90°-180°	29.0	2.8
0°-180°	1018.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	885	
5°	878	83
15°	809	227
25°	668	277
35°	172	117
45°	115	89
55°	74	67
65°	51	52
75°	41	43
85°	31	26
90°	26	14
95°	22	15
105°	5	7
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°	884.6
2.5°	883.4
5°	878.3
7.5°	862.9
10°	843.8
12.5°	827.2
15°	809.3
17.5°	787.6
20°	758.3
22.5°	722.5
25°	667.6
27.5°	520.8
30°	312.7
32.5°	205.5
35°	172.3
37.5°	154.5
40°	140.4
42.5°	127.7
45°	114.9
47.5°	103.4
50°	93.2
52.5°	83.0
55°	74.0
57.5°	67.7
60°	61.3
62.5°	54.9
65°	51.1
67.5°	48.5
70°	46.0
72.5°	43.4
75°	40.8
77.5°	38.3
80°	35.7
82.5°	33.2
85°	30.6
87.5°	28.1
90°	25.5
92.5°	24.3
95°	21.7
97.5°	16.6
100°	12.8
102.5°	8.9
105°	5.1
107.5°	3.8
110°	1.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.3
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)