

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: P702499

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702499
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-20-D010 / 340-EU4C-1020-9035-4LBW1LI-FF
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

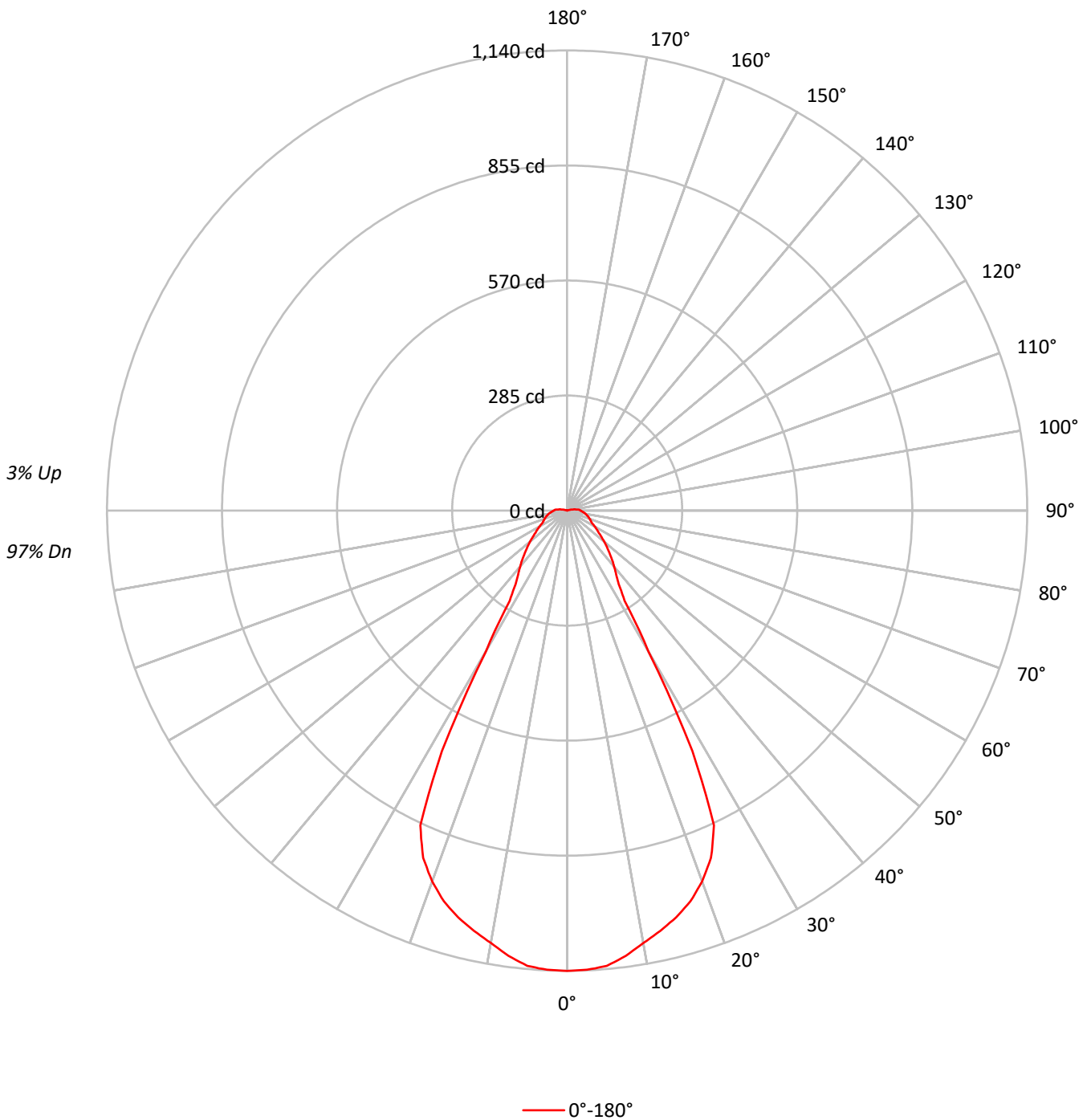
Lumens per Lamp: N/A
Luminaire Lumens: 1313.3 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 21.8
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°	74400
5°	66263
10°	58119
15°	51646
20°	45394
25°	37909
30°	17014
35°	9065
40°	7199
45°	5790
50°	4651
55°	3688
60°	3072
65°	2593
70°	2384
75°	2186
80°	1988
85°	1787

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	8.1
10°-20°	293.1	22.3
20°-30°	357.5	27.2
30°-40°	151.4	11.5
40°-50°	114.8	8.7
50°-60°	86.9	6.6
60°-70°	66.4	5.1
70°-80°	55.7	4.2
80°-90°	43.1	3.3
90°-100°	28.8	2.2
100°-110°	8.5	0.6
110°-120°	0.6	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°	757.1	57.6
0°-40°	908.5	69.2
0°-60°	1110.2	84.5
0°-90°	1275.4	97.1
90°-120°	37.9	2.9
90°-150°	37.9	2.9
90°-180°	38.0	2.9
0°-180°	1313.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1140	
5°	1132	107
15°	1043	293
25°	861	357
35°	222	151
45°	148	115
55°	95	87
65°	66	66
75°	53	56
85°	40	34
90°	33	18
95°	28	20
105°	7	9
115°	0	1
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°	1140.4
2.5°	1138.7
5°	1132.2
7.5°	1112.4
10°	1087.7
12.5°	1066.3
15°	1043.3
17.5°	1015.3
20°	977.5
22.5°	931.4
25°	860.6
27.5°	671.4
30°	403.2
32.5°	264.9
35°	222.2
37.5°	199.1
40°	181.0
42.5°	164.6
45°	148.1
47.5°	133.3
50°	120.1
52.5°	107.0
55°	95.4
57.5°	87.2
60°	79.0
62.5°	70.8
65°	65.8
67.5°	62.5
70°	59.2
72.5°	55.9
75°	52.7
77.5°	49.4
80°	46.1
82.5°	42.8
85°	39.5
87.5°	36.2
90°	32.9
92.5°	31.3
95°	28.0
97.5°	21.4
100°	16.5
102.5°	11.5
105°	6.6
107.5°	4.9
110°	1.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.6
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)