

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: P702512

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

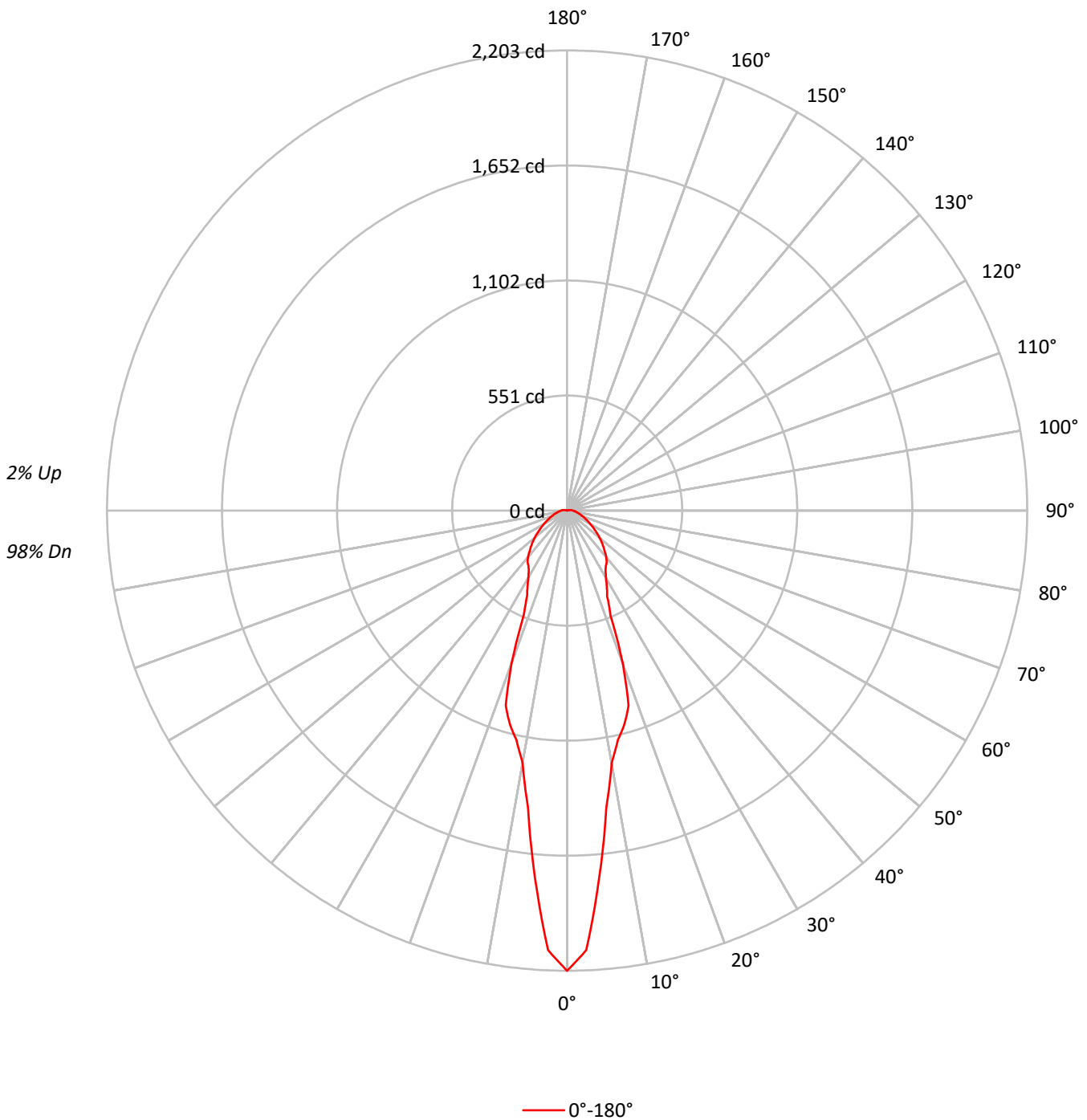
Lumens per Lamp: N/A
Luminaire Lumens: 1440.7 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	110	105	102	98	107	103	100	97	98	96	93		94	92	90		90	89	87	85
2	102	95	89	84	99	93	87	83	89	84	81		85	82	78		82	79	76	74
3	95	86	79	73	92	84	78	72	81	75	71		78	73	70		75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63		72	67	62		69	65	61	59
5	83	72	64	58	81	71	63	58	68	62	57		66	61	57		64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52		62	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	46
8	69	58	50	45	68	57	50	45	55	49	45		54	48	44		53	48	44	42
9	66	54	47	42	64	53	47	42	52	46	42		51	45	41		50	45	41	40
10	62	51	44	40	61	50	44	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143751
5°	103263
10°	65520
15°	52453
20°	36088
25°	20003
30°	15685
35°	13173
40°	11574
45°	9602
50°	7881
55°	6243
60°	4969
65°	3910
70°	3117
75°	2514
80°	2031
85°	1674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9602 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	10.5
10°-20°	289.4	20.1
20°-30°	224.6	15.6
30°-40°	204.4	14.2
40°-50°	189.6	13.2
50°-60°	145.9	10.1
60°-70°	99.8	6.9
70°-80°	64.9	4.5
80°-90°	40.3	2.8
90°-100°	23.4	1.6
100°-110°	7.4	0.5
110°-120°	0.2	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°	664.8	46.1
0°-40°	869.2	60.3
0°-60°	1204.6	83.6
0°-90°	1409.7	97.8
90°-120°	31.0	2.2
90°-150°	31.0	2.2
90°-180°	31.0	2.2
0°-180°	1440.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2203	
5°	1764	151
15°	1060	289
25°	454	225
35°	323	204
45°	246	190
55°	162	146
65°	99	100
75°	61	65
85°	37	32
90°	27	15
95°	22	16
105°	7	7
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°	2203.4
2.5°	2105.8
5°	1764.4
7.5°	1434.7
10°	1226.2
12.5°	1123.6
15°	1059.6
17.5°	977.2
20°	777.1
22.5°	543.3
25°	454.1
27.5°	410.4
30°	371.7
32.5°	341.4
35°	322.9
37.5°	311.2
40°	291.0
42.5°	267.4
45°	245.6
47.5°	223.7
50°	203.5
52.5°	181.7
55°	161.5
57.5°	144.6
60°	127.8
62.5°	112.7
65°	99.2
67.5°	89.1
70°	77.4
72.5°	69.0
75°	60.6
77.5°	53.8
80°	47.1
82.5°	42.0
85°	37.0
87.5°	32.0
90°	26.9
92.5°	25.2
95°	21.9
97.5°	18.5
100°	13.5
102.5°	10.1
105°	6.7
107.5°	3.4
110°	1.7

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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)