

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: P702706

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-11)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-CC
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

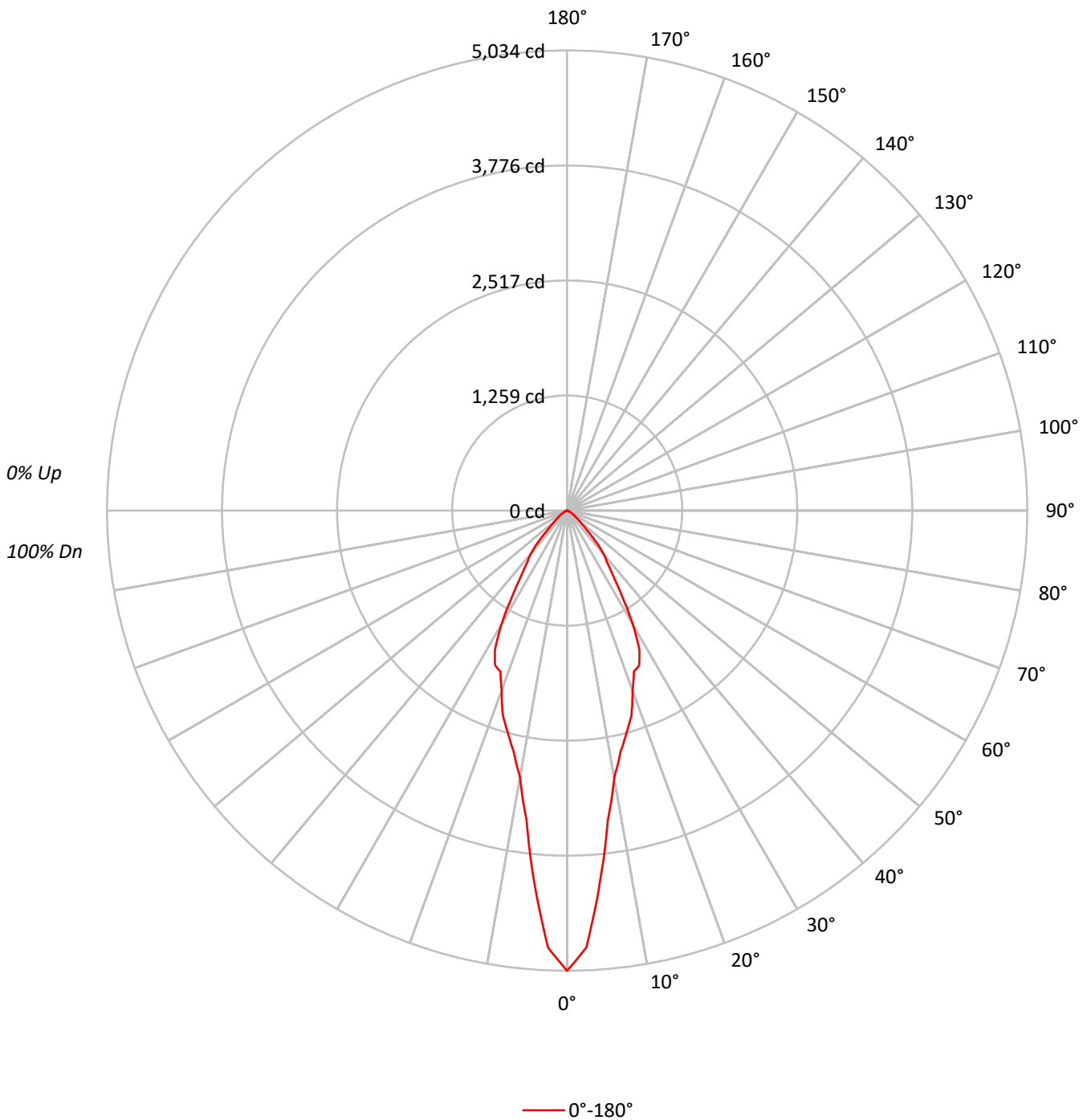
Lumens per Lamp: N/A
Luminaire Lumens: 2891.7 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.71
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	84	90	86	83		88	85	82		86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76		83	79	75		81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65		73	68	65		72	68	64	63
7	82	72	66	61	80	71	65	61	70	65	61		69	64	61		68	63	60	59
8	78	68	62	57	76	67	61	57	66	61	57		65	60	57		64	60	56	55
9	74	64	58	54	73	63	58	54	62	57	53		62	57	53		61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50		58	53	50		58	53	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	328434
5°	268168
10°	196509
15°	169693
20°	145319
25°	134331
30°	108284
35°	70294
40°	53160
45°	29663
50°	17275
55°	11477
60°	7816
65°	4863
70°	4216
75°	3176
80°	2367
85°	2395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29663 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.0	12.2
10°-20°	703.0	24.3
20°-30°	831.1	28.7
30°-40°	581.6	20.1
40°-50°	271.4	9.4
50°-60°	94.2	3.3
60°-70°	35.8	1.2
70°-80°	14.5	0.5
80°-90°	3.5	0.1
90°-100°	2.2	0.1
100°-110°	1.3	0.0
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°	1888.2	65.3
0°-40°	2469.8	85.4
0°-60°	2835.3	98.1
0°-90°	2889.1	99.9
90°-120°	3.5	0.1
90°-150°	3.5	0.1
90°-180°	3.0	0.1
0°-180°	2891.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5034	
5°	4095	354
15°	2512	703
25°	1866	831
35°	883	582
45°	322	271
55°	101	94
65°	32	36
75°	13	15
85°	3	3
90°	0	0
95°	0	1
105°	0	1
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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CATALOG NUMBER: 340-6C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-CC

CANDELA DISTRIBUTION (FULL):

0°	
0°	5034.2
2.5°	4785.2
5°	4094.8
7.5°	3413.9
10°	2966.3
12.5°	2701.5
15°	2512.4
17.5°	2342.1
20°	2093.1
22.5°	1907.1
25°	1866.1
27.5°	1708.5
30°	1437.4
32.5°	1131.7
35°	882.6
37.5°	721.9
40°	624.2
42.5°	485.5
45°	321.5
47.5°	223.8
50°	170.2
52.5°	129.2
55°	100.9
57.5°	78.8
60°	59.9
62.5°	44.1
65°	31.5
67.5°	28.4
70°	22.1
72.5°	18.9
75°	12.6
77.5°	9.5
80°	6.3
82.5°	3.2
85°	3.2
87.5°	3.2
90°	0.0
92.5°	0.0
95°	0.0
97.5°	3.2
100°	3.2
102.5°	3.2
105°	0.0
107.5°	0.0
110°	0.0

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CATALOG NUMBER: 340-6C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-CC

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)