

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: P701803

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

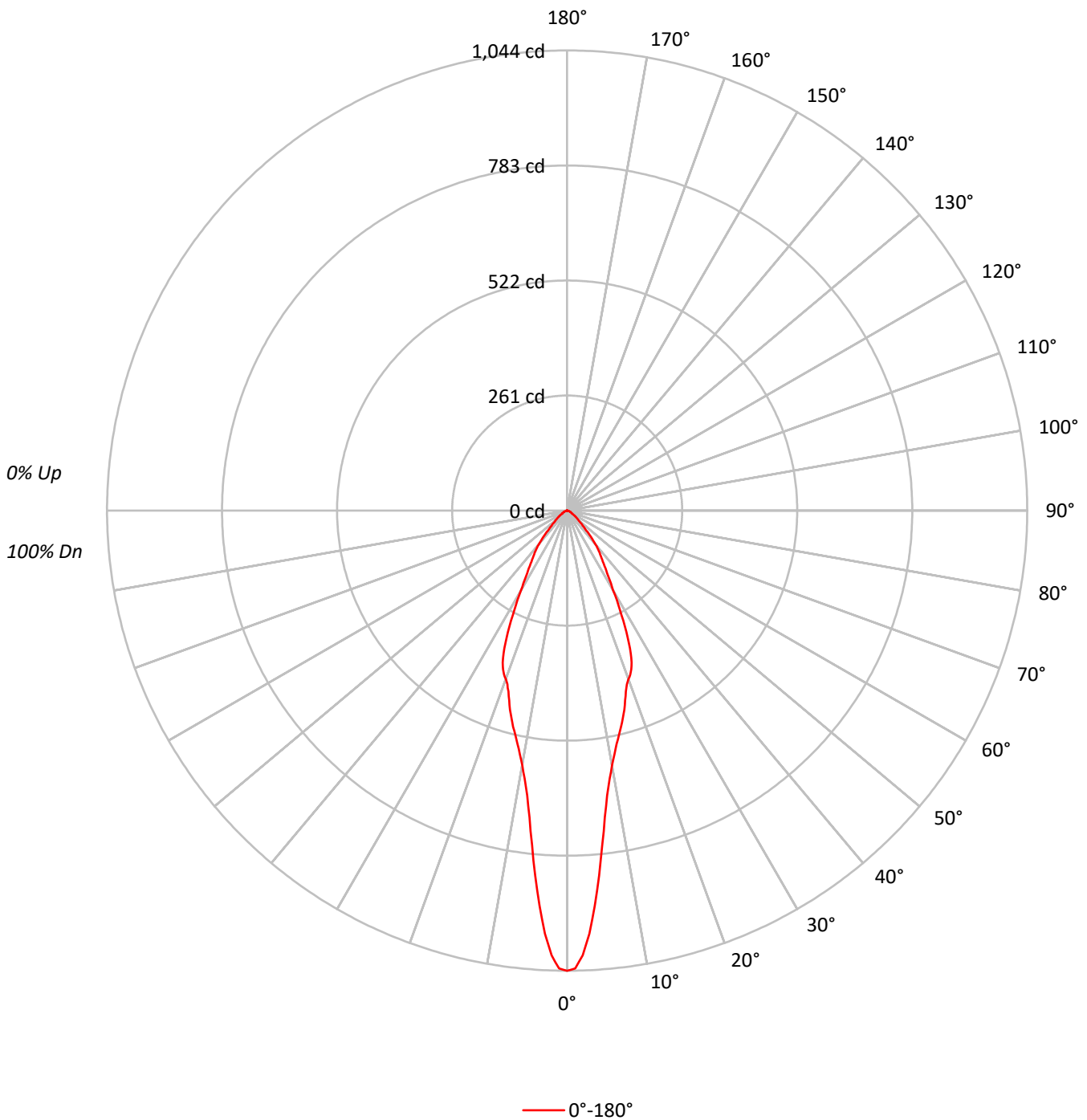
Lumens per Lamp: N/A
Luminaire Lumens: 522.0 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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	103	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	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	82	76	72	80	75	71		78	74	70		76	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65	61	57	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	52		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	121098
5°	96727
10°	69132
15°	58608
20°	50247
25°	42526
30°	27950
35°	19950
40°	15231
45°	8956
50°	5918
55°	4307
60°	2807
65°	2525
70°	2136
75°	1524
80°	1135
85°	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8956 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	13.5
10°-20°	135.7	26.0
20°-30°	146.6	28.1
30°-40°	90.6	17.4
40°-50°	45.4	8.7
50°-60°	19.0	3.6
60°-70°	8.9	1.7
70°-80°	3.9	0.8
80°-90°	0.9	0.2
90°-100°	0.1	0.0
100°-110°	0.2	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°	353.0	67.6
0°-40°	443.6	85.0
0°-60°	507.9	97.3
0°-90°	521.7	99.9
90°-120°	0.3	0.1
90°-150°	0.3	0.1
90°-180°	0.0	0.0
0°-180°	522.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1044	
5°	831	71
15°	488	136
25°	332	147
35°	141	91
45°	55	45
55°	21	19
65°	9	9
75°	3	4
85°	1	1
90°	0	0
95°	0	0
105°	0	0
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°	1044.1
1°	1038.9
2°	1009.6
3°	961.3
4°	898.6
5°	830.8
6°	762.9
7°	701.4
8°	652.6
9°	615.8
10°	587.0
11°	562.3
12°	541.0
13°	522.6
14°	505.9
15°	488.1
16°	470.3
17°	450.2
18°	431.8
19°	416.8
20°	407.1
21°	399.0
22°	388.7
23°	374.3
24°	354.7
25°	332.3
27.5°	267.3
30°	208.7
32.5°	168.5
35°	140.9
37.5°	120.7
40°	100.6
42.5°	75.3
45°	54.6
47.5°	41.4
50°	32.8
52.5°	27.0
55°	21.3
57.5°	14.9
60°	12.1
62.5°	10.3
65°	9.2
67.5°	7.5
70°	6.3
72.5°	4.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	3.4
77.5°	2.9
80°	1.7
82.5°	1.1
85°	0.6
87.5°	0.6
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.6
102.5°	0.6
105°	0.0
107.5°	0.0
110°	0.0
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)