

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: P702132

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9730-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702132
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-30-D010 / 340-EU4C-3040-9730-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

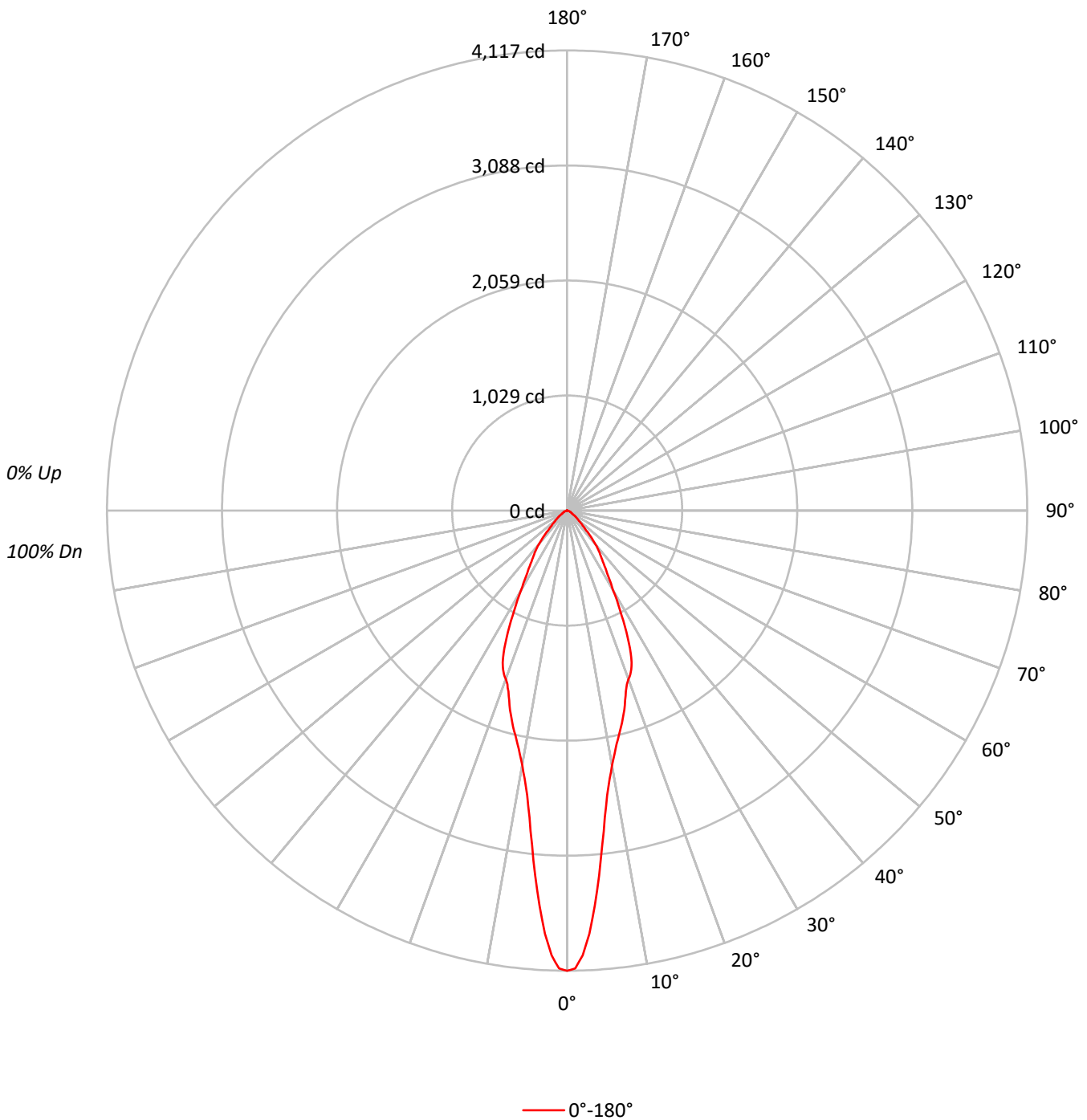
Lumens per Lamp: N/A
Luminaire Lumens: 2058.6 lumens
Efficiency: N/A
Efficacy: 65.1 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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°	477549
5°	381447
10°	272631
15°	231144
20°	198137
25°	167709
30°	110221
35°	78653
40°	60078
45°	35331
50°	23313
55°	16965
60°	11042
65°	9962
70°	8444
75°	6094
80°	4542
85°	3061

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35331 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	13.5
10°-20°	535.3	26.0
20°-30°	578.2	28.1
30°-40°	357.1	17.3
40°-50°	178.9	8.7
50°-60°	75.0	3.6
60°-70°	35.3	1.7
70°-80°	15.5	0.8
80°-90°	3.4	0.2
90°-100°	0.3	0.0
100°-110°	0.9	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°	1392.0	67.6
0°-40°	1749.2	85.0
0°-60°	2003.1	97.3
0°-90°	2057.3	99.9
90°-120°	1.2	0.1
90°-150°	1.2	0.1
90°-180°	1.0	0.0
0°-180°	2058.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4117	
5°	3276	279
15°	1925	535
25°	1310	578
35°	556	357
45°	215	179
55°	84	75
65°	36	35
75°	14	16
85°	2	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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4117.4
1°	4097.0
2°	3981.4
3°	3791.0
4°	3543.8
5°	3276.3
6°	3008.7
7°	2766.1
8°	2573.4
9°	2428.3
10°	2314.9
11°	2217.4
12°	2133.5
13°	2061.0
14°	1995.2
15°	1925.0
16°	1854.7
17°	1775.3
18°	1702.8
19°	1643.8
20°	1605.3
21°	1573.5
22°	1532.7
23°	1476.0
24°	1398.9
25°	1310.5
27.5°	1054.3
30°	823.0
32.5°	664.3
35°	555.5
37.5°	476.1
40°	396.8
42.5°	297.0
45°	215.4
47.5°	163.2
50°	129.2
52.5°	106.6
55°	83.9
57.5°	59.0
60°	47.6
62.5°	40.8
65°	36.3
67.5°	29.5
70°	24.9
72.5°	18.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	13.6
77.5°	11.3
80°	6.8
82.5°	4.5
85°	2.3
87.5°	2.3
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.3
102.5°	2.3
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)