

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: P702085

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

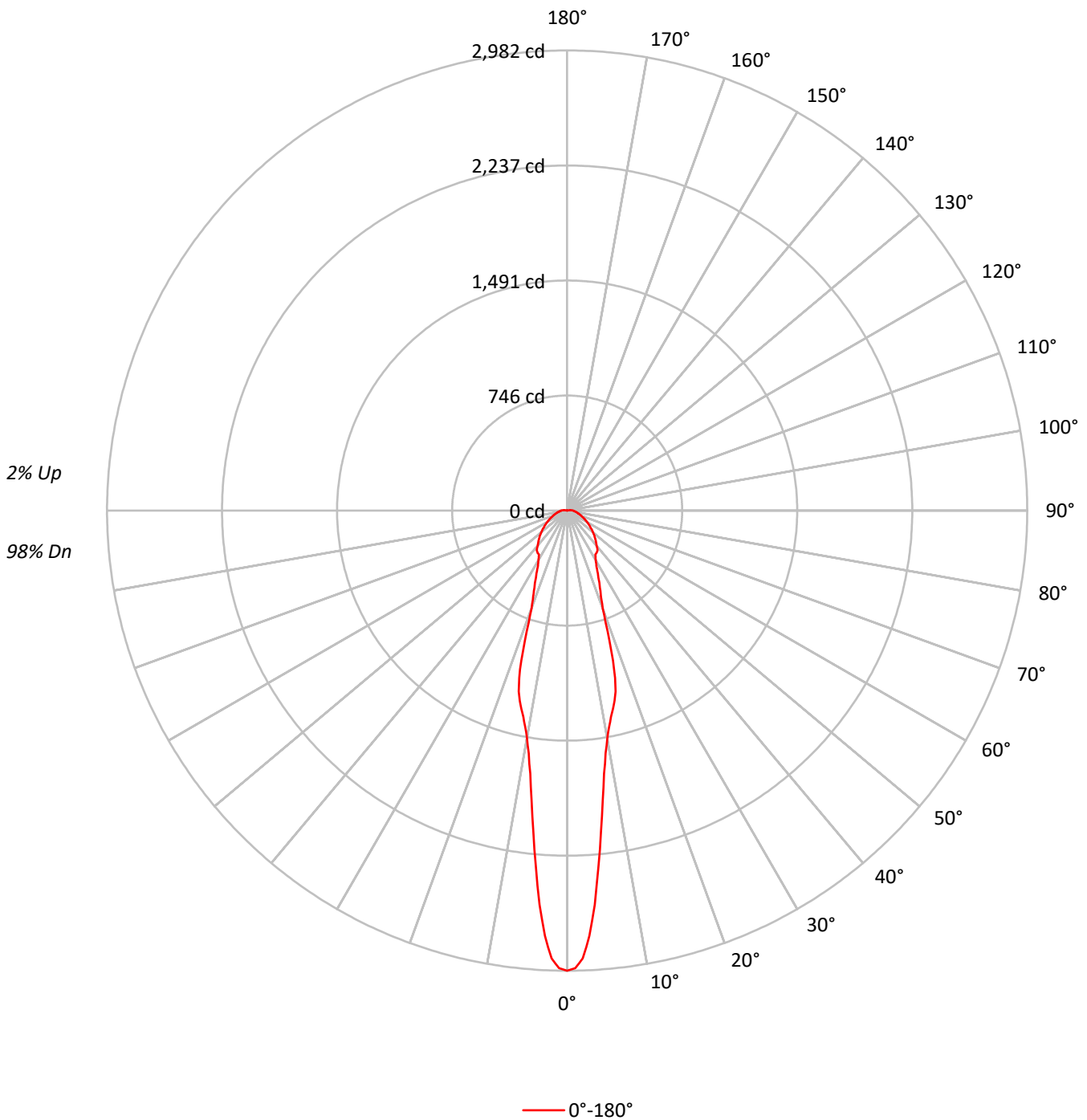
Lumens per Lamp: N/A
Luminaire Lumens: 1589.0 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	110	110	110		105	105	105		100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	99	92	87	82	88	84	80		85	81	78		81	78	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	78	70	64	86	76	69	64	74	68	63		71	66	62		69	64	61	59
5	82	71	64	58	80	70	63	58	68	62	57		66	60	56		64	59	55	53
6	77	66	58	53	76	65	58	53	63	57	52		61	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	45
8	69	58	50	45	68	57	50	45	55	49	45		54	49	44		53	48	44	42
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		50	45	41	40
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	345839
5°	235361
10°	135661
15°	100087
20°	51525
25°	34264
30°	25045
35°	21600
40°	18572
45°	15632
50°	13053
55°	10764
60°	8813
65°	7150
70°	5741
75°	4692
80°	3859
85°	3131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15632 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	12.1
10°-20°	313.0	19.7
20°-30°	223.9	14.1
30°-40°	208.5	13.1
40°-50°	198.5	12.5
50°-60°	163.4	10.3
60°-70°	120.1	7.6
70°-80°	82.1	5.2
80°-90°	52.8	3.3
90°-100°	29.1	1.8
100°-110°	5.4	0.3
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°	729.2	45.9
0°-40°	937.6	59.0
0°-60°	1299.5	81.8
0°-90°	1554.5	97.8
90°-120°	34.4	2.2
90°-150°	34.4	2.2
90°-180°	34.0	2.1
0°-180°	1589.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2982	
5°	2322	192
15°	1213	313
25°	480	224
35°	334	208
45°	257	198
55°	182	163
65°	121	120
75°	77	82
85°	48	42
90°	38	21
95°	27	19
105°	4	5
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°	2981.8
1°	2966.5
2°	2903.2
3°	2759.2
4°	2559.7
5°	2321.8
6°	2095.3
7°	1891.9
8°	1721.2
9°	1592.6
10°	1496.7
11°	1425.7
12°	1366.2
13°	1318.2
14°	1270.3
15°	1212.7
16°	1128.3
17°	1017.0
18°	886.5
19°	765.6
20°	675.4
21°	619.8
22°	579.5
23°	544.9
24°	512.3
25°	479.7
27.5°	412.5
30°	370.3
32.5°	339.6
35°	333.9
37.5°	324.3
40°	297.4
42.5°	276.3
45°	257.1
47.5°	237.9
50°	218.7
52.5°	199.6
55°	182.3
57.5°	165.0
60°	149.7
62.5°	134.3
65°	120.9
67.5°	107.5
70°	95.9
72.5°	86.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	76.8
77.5°	69.1
80°	61.4
82.5°	53.7
85°	48.0
87.5°	42.2
90°	38.4
92.5°	34.5
95°	26.9
97.5°	19.2
100°	13.4
102.5°	7.7
105°	3.8
107.5°	1.9
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)