

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: P702029

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702029
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-25-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

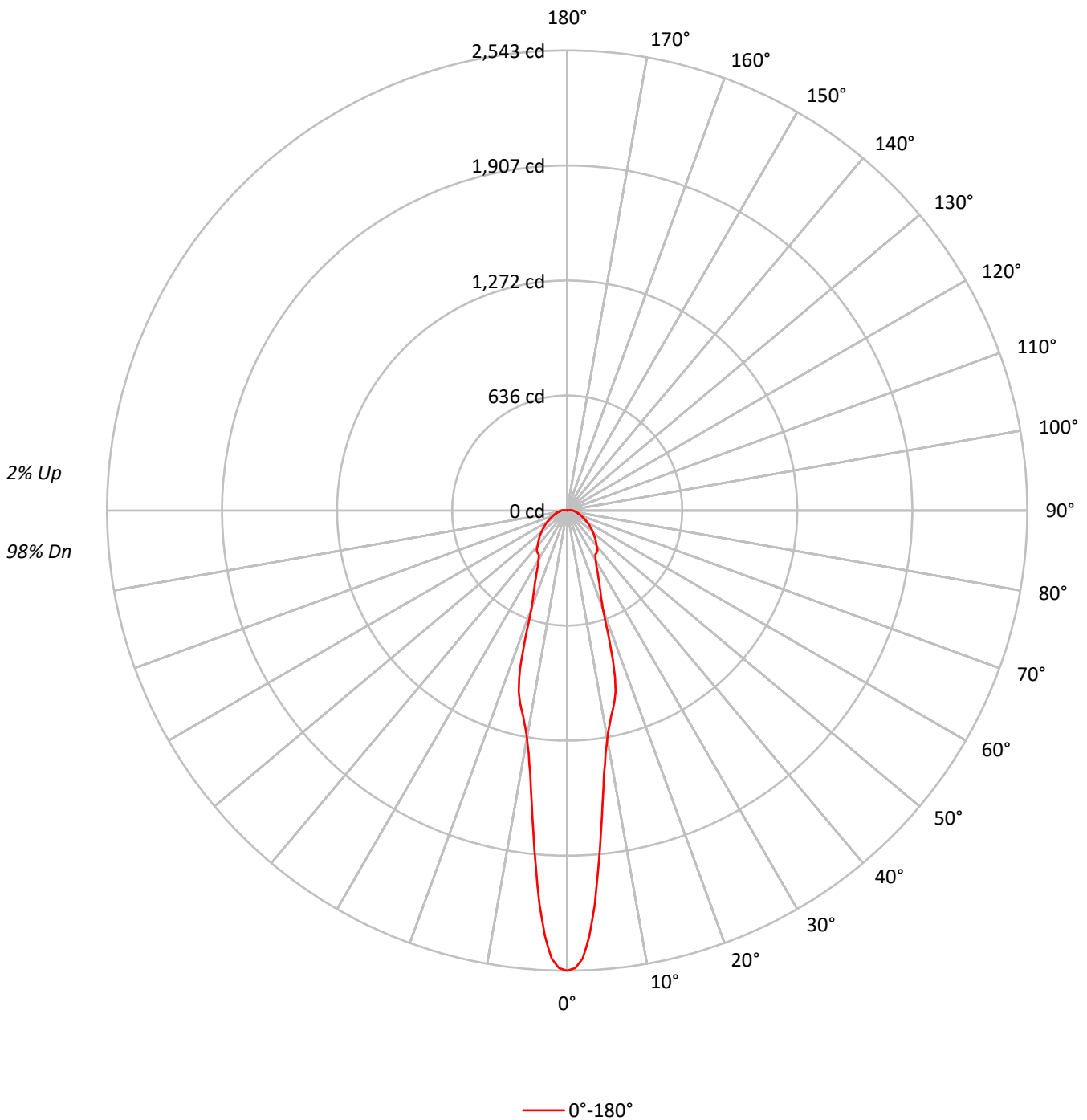
Lumens per Lamp: N/A
Luminaire Lumens: 1355.1 lumens
Efficiency: N/A
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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

TEST NUMBER: P702029

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CQ

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°	294934
5°	200713
10°	115693
15°	85355
20°	43942
25°	29221
30°	21359
35°	18417
40°	15837
45°	13334
50°	11131
55°	9182
60°	7512
65°	6097
70°	4897
75°	4001
80°	3293
85°	2667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.0	12.1
10°-20°	266.9	19.7
20°-30°	191.0	14.1
30°-40°	177.7	13.1
40°-50°	169.3	12.5
50°-60°	139.3	10.3
60°-70°	102.4	7.6
70°-80°	70.0	5.2
80°-90°	45.0	3.3
90°-100°	24.8	1.8
100°-110°	4.6	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°	621.9	45.9
0°-40°	799.6	59.0
0°-60°	1108.2	81.8
0°-90°	1325.7	97.8
90°-120°	29.4	2.2
90°-150°	29.4	2.2
90°-180°	29.0	2.1
0°-180°	1355.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2543	
5°	1980	164
15°	1034	267
25°	409	191
35°	285	178
45°	219	169
55°	156	139
65°	103	102
75°	66	70
85°	41	36
90°	33	18
95°	23	16
105°	3	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°	2542.9
1°	2529.8
2°	2475.8
3°	2353.1
4°	2182.9
5°	1980.0
6°	1786.9
7°	1613.4
8°	1467.8
9°	1358.2
10°	1276.4
11°	1215.8
12°	1165.1
13°	1124.2
14°	1083.3
15°	1034.2
16°	962.2
17°	867.3
18°	756.0
19°	652.9
20°	576.0
21°	528.5
22°	494.2
23°	464.7
24°	436.9
25°	409.1
27.5°	351.8
30°	315.8
32.5°	289.6
35°	284.7
37.5°	276.5
40°	253.6
42.5°	235.6
45°	219.3
47.5°	202.9
50°	186.5
52.5°	170.2
55°	155.5
57.5°	140.7
60°	127.6
62.5°	114.5
65°	103.1
67.5°	91.6
70°	81.8
72.5°	73.6

TEST NUMBER: P702029

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CQ

CANDELA DISTRIBUTION (continued):

	0°
75°	65.5
77.5°	58.9
80°	52.4
82.5°	45.8
85°	40.9
87.5°	36.0
90°	32.7
92.5°	29.5
95°	22.9
97.5°	16.4
100°	11.5
102.5°	6.5
105°	3.3
107.5°	1.6
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)