

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: P702155

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702155
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-35-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

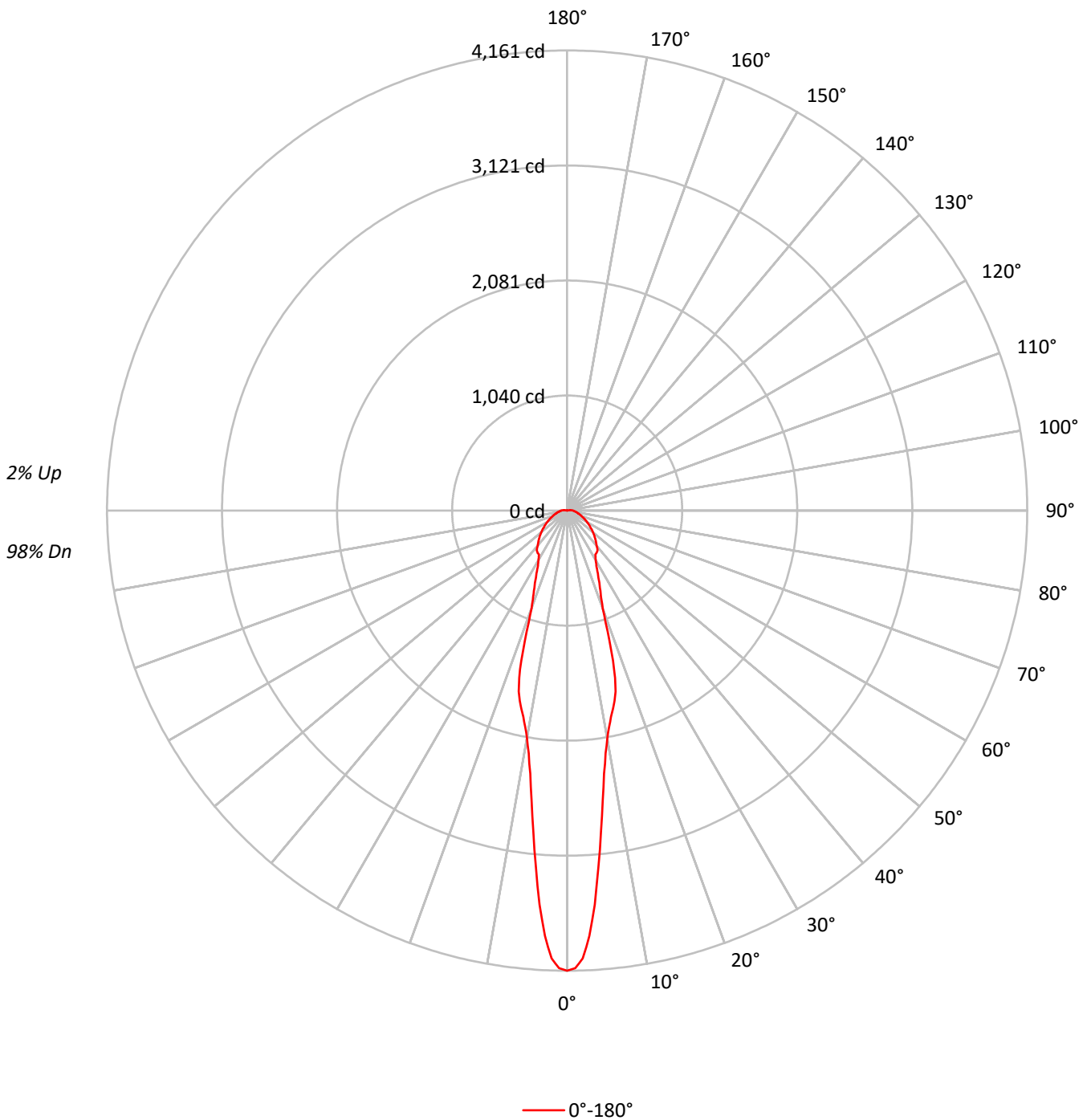
Lumens per Lamp: N/A
Luminaire Lumens: 2217.4 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 40.4
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°	482594
5°	328419
10°	189302
15°	139661
20°	71902
25°	47814
30°	34954
35°	30139
40°	25916
45°	21816
50°	18216
55°	15022
60°	12292
65°	9977
70°	8016
75°	6543
80°	5386
85°	4363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21816 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	12.1
10°-20°	436.8	19.7
20°-30°	312.5	14.1
30°-40°	290.9	13.1
40°-50°	277.0	12.5
50°-60°	228.0	10.3
60°-70°	167.6	7.6
70°-80°	114.5	5.2
80°-90°	73.7	3.3
90°-100°	40.6	1.8
100°-110°	7.5	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°	1017.5	45.9
0°-40°	1308.4	59.0
0°-60°	1813.4	81.8
0°-90°	2169.3	97.8
90°-120°	48.1	2.2
90°-150°	48.1	2.2
90°-180°	48.0	2.2
0°-180°	2217.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4161	
5°	3240	268
15°	1692	437
25°	669	312
35°	466	291
45°	359	277
55°	254	228
65°	169	168
75°	107	115
85°	67	58
90°	54	29
95°	38	27
105°	5	8
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°	4160.9
1°	4139.4
2°	4051.1
3°	3850.3
4°	3571.8
5°	3239.8
6°	2923.8
7°	2640.0
8°	2401.7
9°	2222.3
10°	2088.5
11°	1989.4
12°	1906.4
13°	1839.5
14°	1772.5
15°	1692.2
16°	1574.4
17°	1419.1
18°	1237.0
19°	1068.3
20°	942.5
21°	864.8
22°	808.6
23°	760.4
24°	714.9
25°	669.4
27.5°	575.7
30°	516.8
32.5°	473.9
35°	465.9
37.5°	452.5
40°	415.0
42.5°	385.6
45°	358.8
47.5°	332.0
50°	305.2
52.5°	278.5
55°	254.4
57.5°	230.3
60°	208.8
62.5°	187.4
65°	168.7
67.5°	149.9
70°	133.9
72.5°	120.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	107.1
77.5°	96.4
80°	85.7
82.5°	75.0
85°	66.9
87.5°	58.9
90°	53.6
92.5°	48.2
95°	37.5
97.5°	26.8
100°	18.7
102.5°	10.7
105°	5.4
107.5°	2.7
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)