

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: P702140

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9024-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-35-D010 / 340-EU4C-3040-9024-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

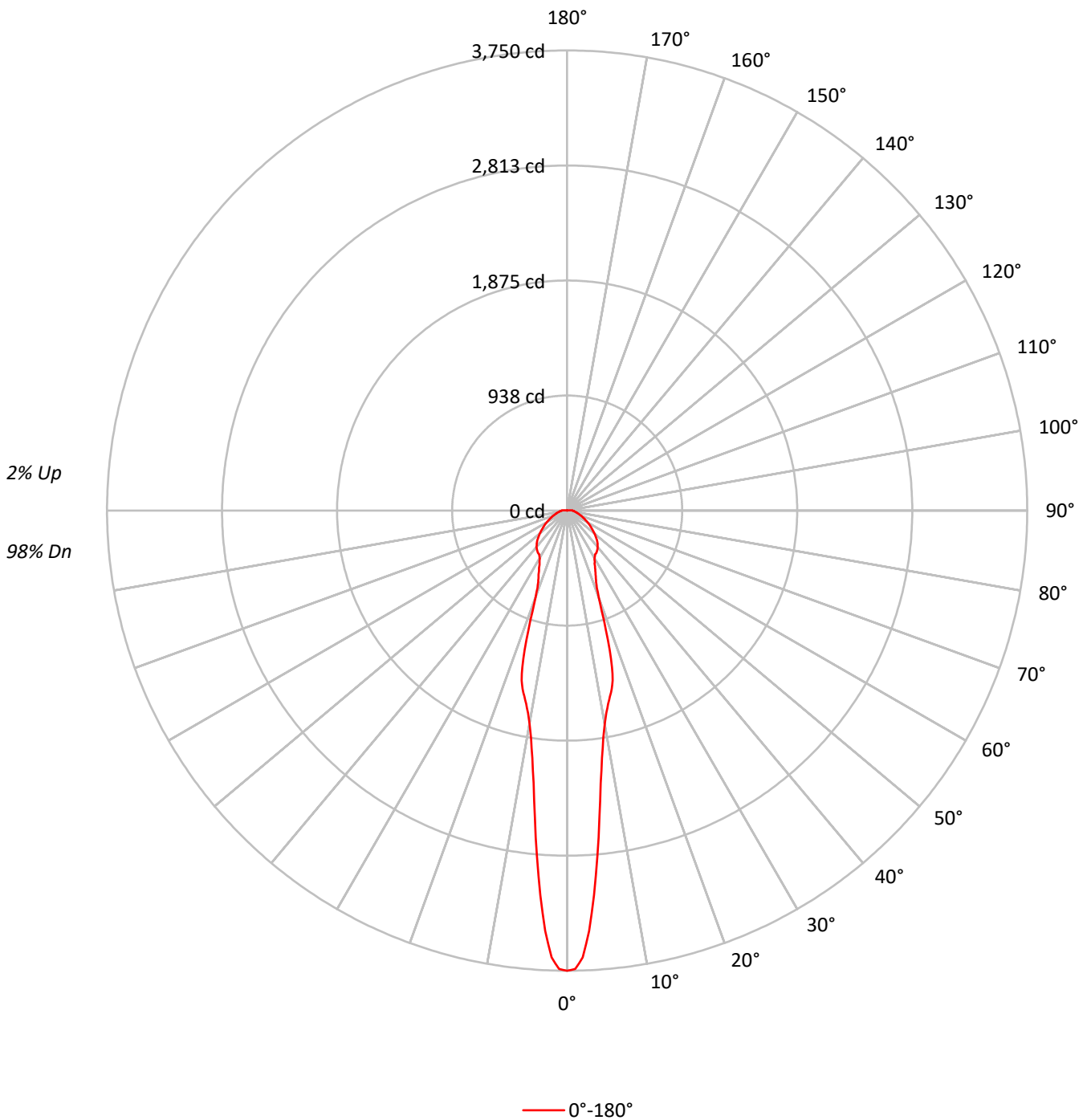
Lumens per Lamp: N/A
Luminaire Lumens: 1941.4 lumens
Efficiency: N/A
Efficacy: 48.1 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	434937
5°	287060
10°	159681
15°	118260
20°	57079
25°	38864
30°	30206
35°	26989
40°	24211
45°	20953
50°	17321
55°	14059
60°	11344
65°	8983
70°	7059
75°	5681
80°	4563
85°	3698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20953 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	11.9
10°-20°	365.6	18.8
20°-30°	254.0	13.1
30°-40°	260.4	13.4
40°-50°	263.9	13.6
50°-60°	214.0	11.0
60°-70°	151.2	7.8
70°-80°	98.8	5.1
80°-90°	62.1	3.2
90°-100°	33.4	1.7
100°-110°	6.4	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°	851.3	43.8
0°-40°	1111.7	57.3
0°-60°	1589.6	81.9
0°-90°	1901.6	98.0
90°-120°	39.8	2.0
90°-150°	39.8	2.0
90°-180°	40.0	2.1
0°-180°	1941.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3750	
5°	2832	232
15°	1433	366
25°	544	254
35°	417	260
45°	345	264
55°	238	214
65°	152	151
75°	93	99
85°	57	49
90°	43	24
95°	32	22
105°	4	6
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°	3750.0
1°	3736.4
2°	3643.5
3°	3430.4
4°	3142.4
5°	2831.8
6°	2518.9
7°	2237.8
8°	2036.0
9°	1877.3
10°	1761.7
11°	1677.8
12°	1609.7
13°	1553.1
14°	1498.7
15°	1432.9
16°	1328.6
17°	1185.8
18°	1022.5
19°	866.1
20°	748.2
21°	675.6
22°	628.0
23°	598.6
24°	571.3
25°	544.1
27.5°	485.2
30°	446.6
32.5°	424.0
35°	417.2
37.5°	403.6
40°	387.7
42.5°	367.3
45°	344.6
47.5°	317.4
50°	290.2
52.5°	263.0
55°	238.1
57.5°	215.4
60°	192.7
62.5°	170.0
65°	151.9
67.5°	133.8
70°	117.9
72.5°	104.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	93.0
77.5°	81.6
80°	72.6
82.5°	63.5
85°	56.7
87.5°	49.9
90°	43.1
92.5°	38.5
95°	31.7
97.5°	22.7
100°	15.9
102.5°	9.1
105°	4.5
107.5°	2.3
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)