

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: P702119

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9050-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702119
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-30-D010 / 340-EU4C-3040-9050-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

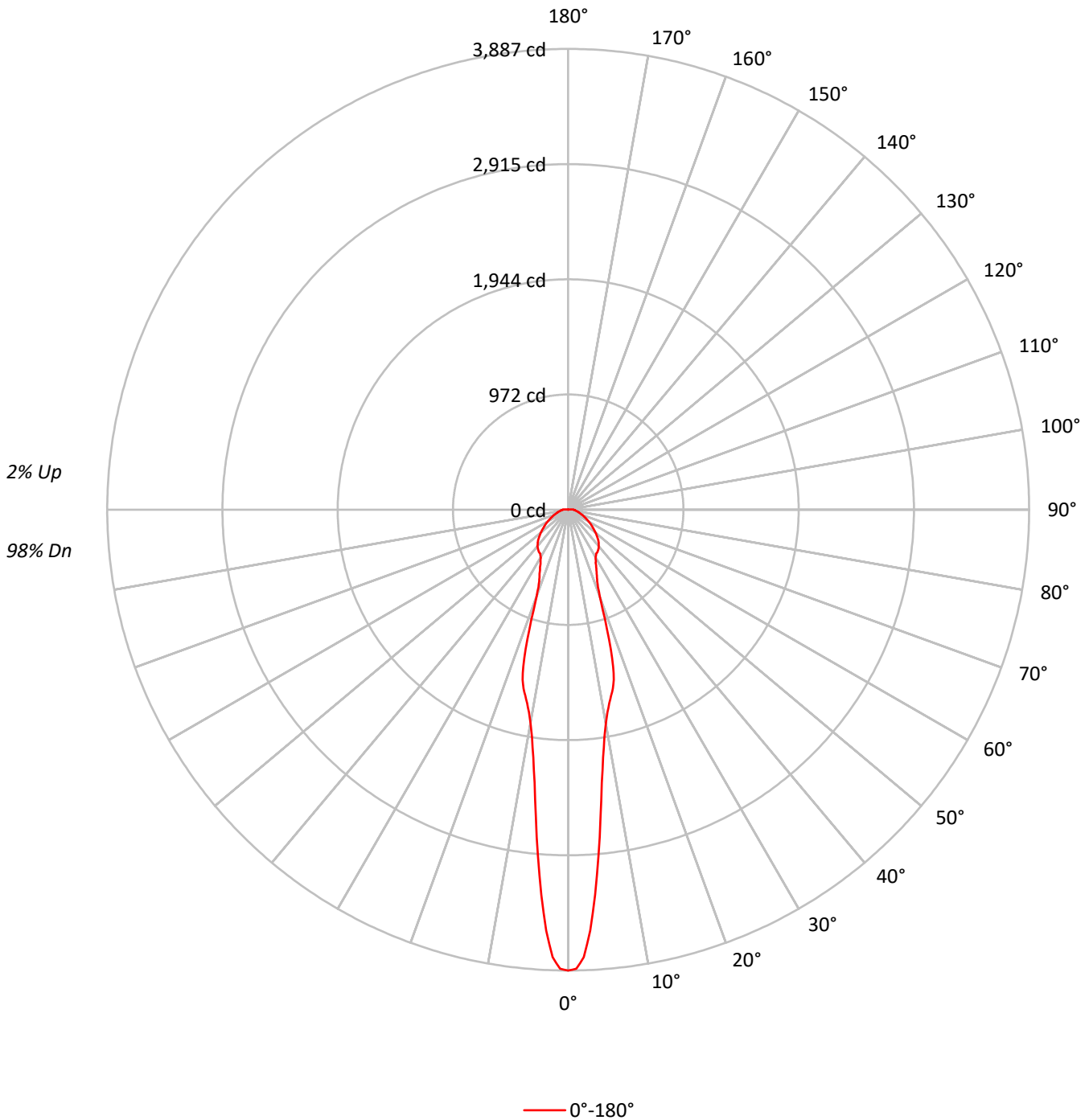
Lumens per Lamp: N/A
Luminaire Lumens: 2012.5 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	450850
5°	297562
10°	165518
15°	122585
20°	59169
25°	40286
30°	31315
35°	27972
40°	25098
45°	21719
50°	17953
55°	14573
60°	11762
65°	9314
70°	7316
75°	5889
80°	4726
85°	3835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21719 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	11.9
10°-20°	379.0	18.8
20°-30°	263.3	13.1
30°-40°	269.9	13.4
40°-50°	273.5	13.6
50°-60°	221.9	11.0
60°-70°	156.7	7.8
70°-80°	102.4	5.1
80°-90°	64.4	3.2
90°-100°	34.7	1.7
100°-110°	6.6	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°	882.4	43.8
0°-40°	1152.3	57.3
0°-60°	1647.7	81.9
0°-90°	1971.2	97.9
90°-120°	41.3	2.1
90°-150°	41.3	2.1
90°-180°	41.0	2.0
0°-180°	2012.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3887	
5°	2935	240
15°	1485	379
25°	564	263
35°	432	270
45°	357	274
55°	247	222
65°	158	157
75°	96	102
85°	59	51
90°	45	25
95°	33	23
105°	5	7
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°	3887.2
1°	3873.1
2°	3776.7
3°	3555.8
4°	3257.3
5°	2935.4
6°	2611.0
7°	2319.6
8°	2110.5
9°	1945.9
10°	1826.1
11°	1739.1
12°	1668.6
13°	1609.9
14°	1553.5
15°	1485.3
16°	1377.2
17°	1229.1
18°	1059.9
19°	897.8
20°	775.6
21°	700.4
22°	651.0
23°	620.4
24°	592.2
25°	564.0
27.5°	502.9
30°	463.0
32.5°	439.5
35°	432.4
37.5°	418.3
40°	401.9
42.5°	380.7
45°	357.2
47.5°	329.0
50°	300.8
52.5°	272.6
55°	246.8
57.5°	223.3
60°	199.8
62.5°	176.3
65°	157.5
67.5°	138.7
70°	122.2
72.5°	108.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	96.4
77.5°	84.6
80°	75.2
82.5°	65.8
85°	58.8
87.5°	51.7
90°	44.7
92.5°	40.0
95°	32.9
97.5°	23.5
100°	16.5
102.5°	9.4
105°	4.7
107.5°	2.4
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)