

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: P702114

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9040-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9040-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

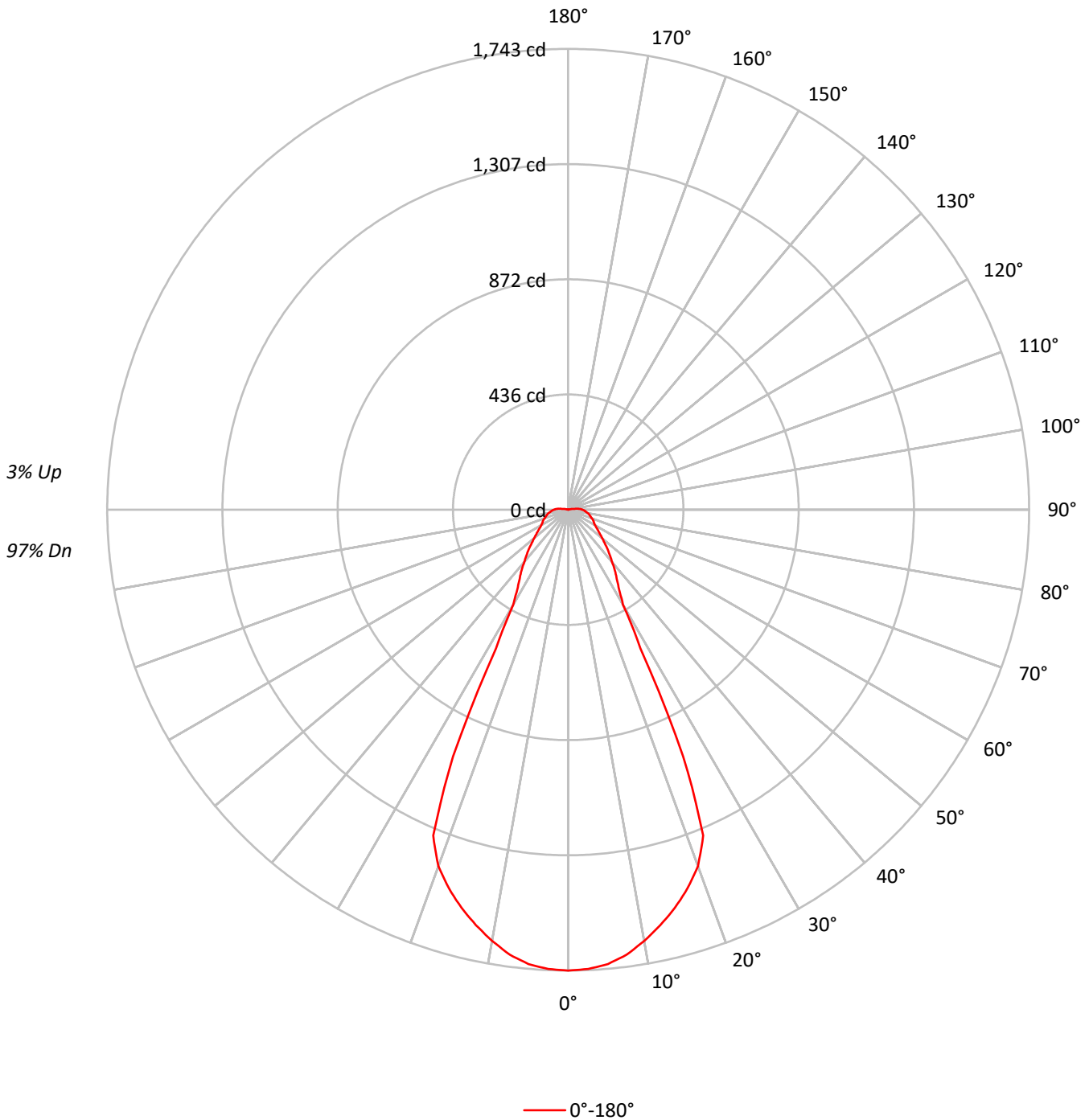
Lumens per Lamp: N/A
Luminaire Lumens: 1835.6 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	109	105	102	98	107	103	99	96	98	95	93		94	92	90		90	88	86	84
2	102	95	89	85	99	93	88	83	89	85	81		86	82	79		82	80	77	75
3	95	87	80	75	93	85	79	74	82	77	72		79	75	71		76	73	69	67
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71	67	63	61
5	84	74	66	61	82	73	66	61	70	64	60		68	63	59		66	62	58	56
6	79	69	61	56	78	68	61	56	66	60	55		64	59	55		62	58	54	52
7	75	64	57	52	73	63	56	52	62	56	51		60	55	51		59	54	50	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		55	51	47	45
9	68	57	50	45	66	56	50	45	55	49	45		54	48	44		53	48	44	43
10	64	53	47	43	63	53	47	42	52	46	42		51	46	42		50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	202193
5°	174843
10°	150082
15°	128667
20°	109451
25°	73528
30°	28035
35°	20708
40°	16105
45°	12744
50°	10033
55°	8160
60°	6911
65°	6263
70°	5652
75°	5205
80°	4776
85°	4207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	8.8
10°-20°	437.3	23.8
20°-30°	432.6	23.6
30°-40°	202.9	11.1
40°-50°	162.0	8.8
50°-60°	125.1	6.8
60°-70°	105.0	5.7
70°-80°	90.1	4.9
80°-90°	70.3	3.8
90°-100°	40.6	2.2
100°-110°	7.4	0.4
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°	1032.3	56.2
0°-40°	1235.2	67.3
0°-60°	1522.3	82.9
0°-90°	1787.7	97.4
90°-120°	47.9	2.6
90°-150°	47.9	2.6
90°-180°	48.0	2.6
0°-180°	1835.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1743	
5°	1725	162
15°	1559	437
25°	1029	433
35°	320	203
45°	210	162
55°	138	125
65°	106	105
75°	85	90
85°	64	55
90°	53	29
95°	39	27
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°	1743.3
2.5°	1738.7
5°	1724.8
7.5°	1697.2
10°	1655.8
12.5°	1609.7
15°	1559.0
17.5°	1501.5
20°	1434.7
22.5°	1333.4
25°	1029.4
27.5°	591.8
30°	414.5
32.5°	356.9
35°	320.1
37.5°	290.2
40°	257.9
42.5°	232.6
45°	209.6
47.5°	186.5
50°	168.1
52.5°	152.0
55°	138.2
57.5°	126.7
60°	117.4
62.5°	110.5
65°	105.9
67.5°	101.3
70°	94.4
72.5°	89.8
75°	85.2
77.5°	80.6
80°	76.0
82.5°	69.1
85°	64.5
87.5°	59.9
90°	53.0
92.5°	48.4
95°	39.1
97.5°	25.3
100°	18.4
102.5°	11.5
105°	4.6
107.5°	2.3
110°	0.0

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CANDELA DISTRIBUTION (continued):

	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)