

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: P702730

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9040-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-10)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-40-D010 / 340-EU4C-3040-9040-4LBW1LI-FF
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

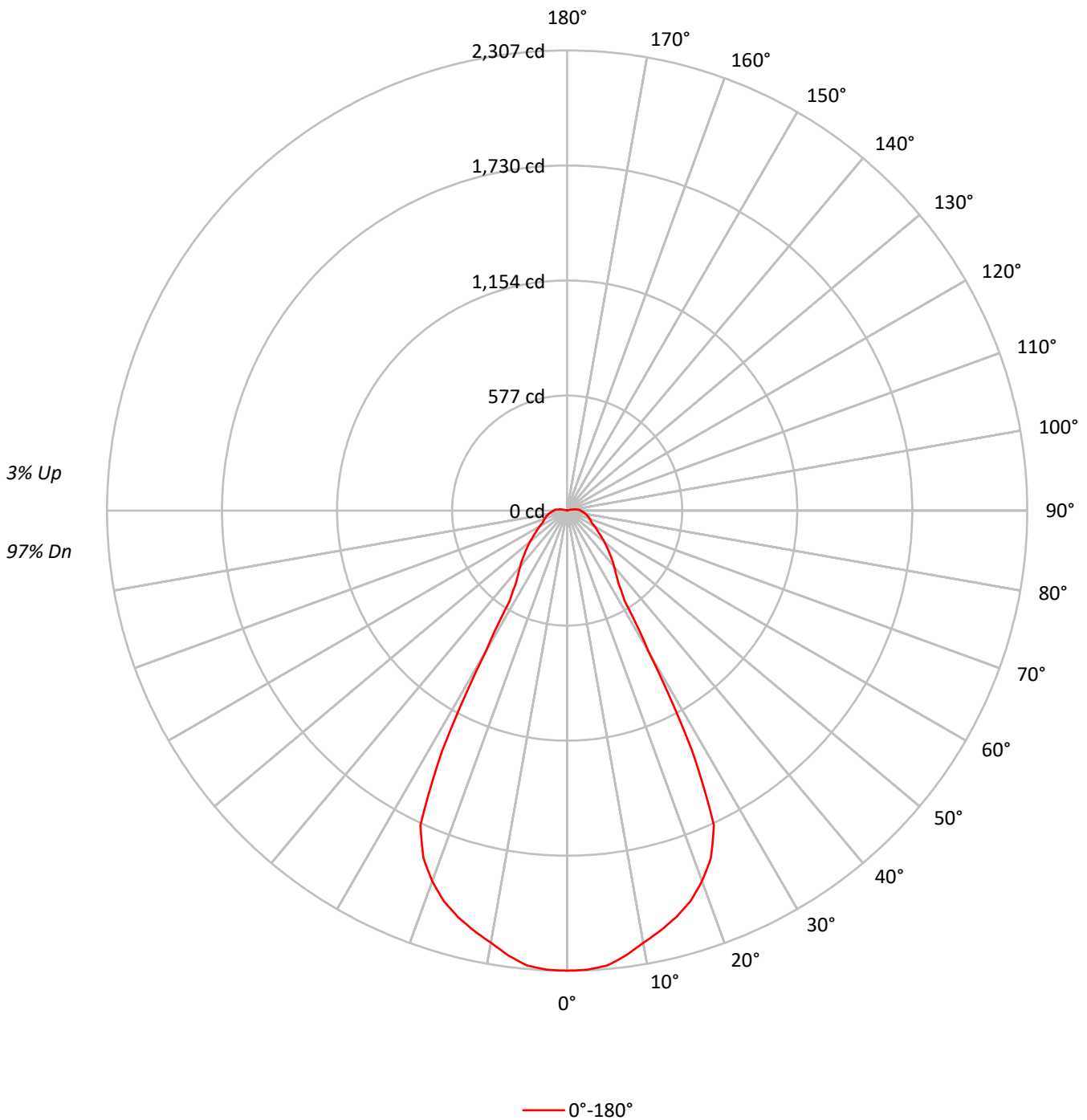
Lumens per Lamp: N/A
Luminaire Lumens: 2656.6 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 47
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		99	99	99	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	102	96	90	86	100	94	89	84	90	86	82		86	83	80		83	80	78	76
3	96	87	81	76	93	86	80	75	83	77	73		80	75	72		77	73	70	68
4	90	80	73	68	88	79	72	67	76	71	66		74	69	65		71	67	64	62
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		67	62	59	57
6	80	69	62	57	78	68	61	56	66	60	56		64	59	55		63	58	54	53
7	75	64	57	52	74	64	57	52	62	56	52		60	55	51		59	54	51	49
8	71	60	53	49	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	68	57	50	45	66	56	50	45	55	49	45		54	48	45		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°	150497
5°	134030
10°	117569
15°	104470
20°	91820
25°	76685
30°	34413
35°	18333
40°	14565
45°	11713
50°	9411
55°	7465
60°	6214
65°	5246
70°	4824
75°	4418
80°	4019
85°	3615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.5	8.1
10°-20°	592.9	22.3
20°-30°	723.1	27.2
30°-40°	306.2	11.5
40°-50°	232.3	8.7
50°-60°	175.9	6.6
60°-70°	134.4	5.1
70°-80°	112.6	4.2
80°-90°	87.1	3.3
90°-100°	58.2	2.2
100°-110°	17.3	0.7
110°-120°	1.3	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°	1531.5	57.6
0°-40°	1837.6	69.2
0°-60°	2245.8	84.5
0°-90°	2579.9	97.1
90°-120°	76.7	2.9
90°-150°	76.7	2.9
90°-180°	77.0	2.9
0°-180°	2656.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2307	
5°	2290	216
15°	2110	593
25°	1741	723
35°	449	306
45°	300	232
55°	193	176
65°	133	134
75°	106	113
85°	80	68
90°	67	37
95°	57	40
105°	13	17
115°	0	1
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°	2306.8
2.5°	2303.5
5°	2290.1
7.5°	2250.2
10°	2200.3
12.5°	2157.0
15°	2110.4
17.5°	2053.8
20°	1977.2
22.5°	1884.0
25°	1740.9
27.5°	1358.1
30°	815.5
32.5°	535.9
35°	449.4
37.5°	402.8
40°	366.2
42.5°	332.9
45°	299.6
47.5°	269.6
50°	243.0
52.5°	216.4
55°	193.1
57.5°	176.4
60°	159.8
62.5°	143.1
65°	133.1
67.5°	126.5
70°	119.8
72.5°	113.2
75°	106.5
77.5°	99.9
80°	93.2
82.5°	86.5
85°	79.9
87.5°	73.2
90°	66.6
92.5°	63.2
95°	56.6
97.5°	43.3
100°	33.3
102.5°	23.3
105°	13.3
107.5°	10.0
110°	3.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	3.3
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)