

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: P702038

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9027-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-8)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-25-D010 / 340-EU4C-3040-9027-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

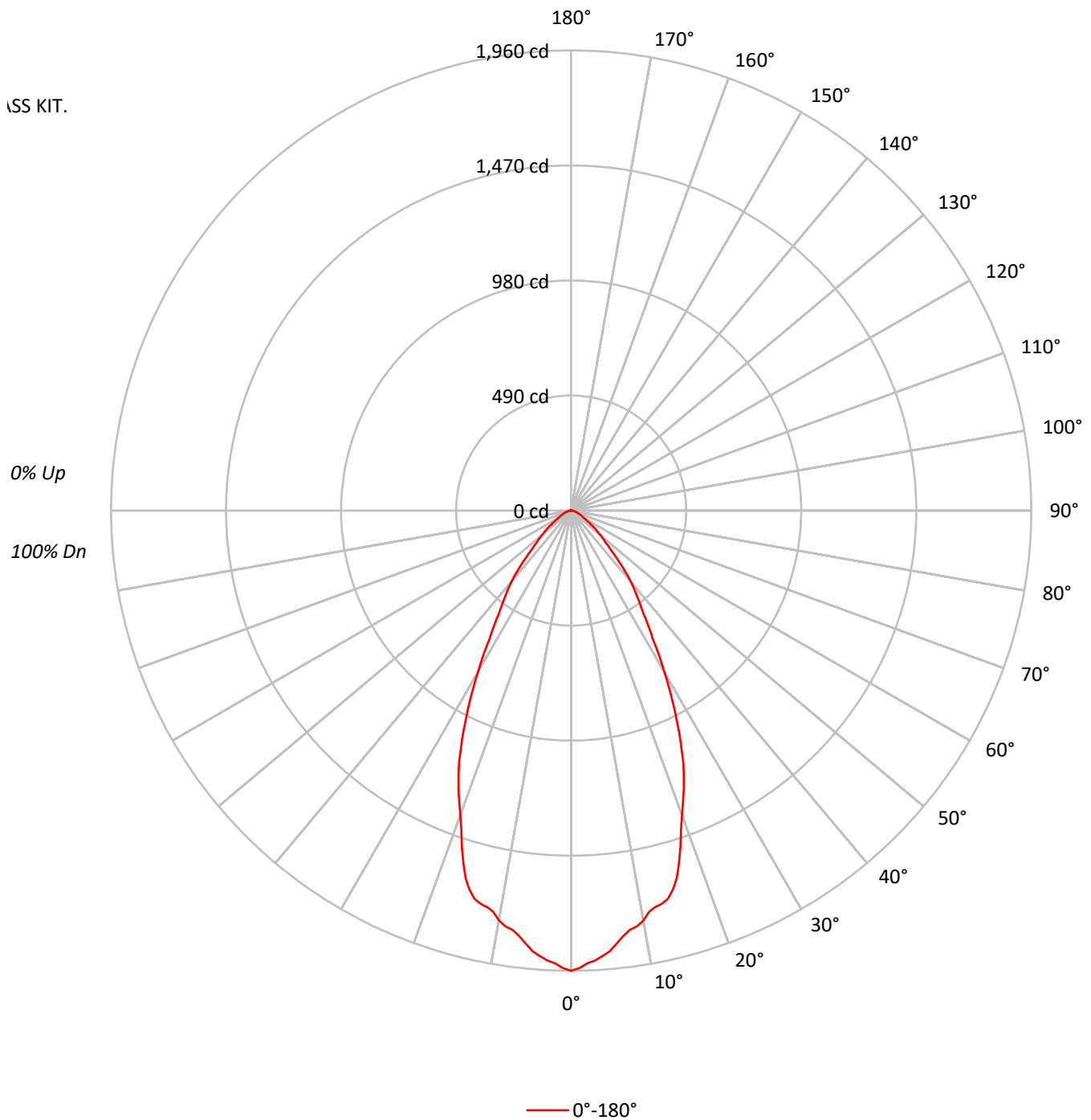
Lumens per Lamp: N/A
Luminaire Lumens: 1849.6 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	101	96	92	104	99	95	91	95	92	89		92	89	87		89	87	85	83
3	100	93	87	83	98	91	86	82	88	84	80		86	82	79		84	81	78	76
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78	75	72	70
5	89	80	73	68	87	79	72	68	77	71	67		75	70	67		73	69	66	64
6	84	74	68	63	82	73	67	63	72	66	62		70	65	62		69	65	61	60
7	79	69	63	58	78	69	62	58	67	62	58		66	61	57		65	60	57	55
8	75	65	58	54	74	64	58	54	63	58	54		62	57	53		61	56	53	52
9	71	61	55	50	70	61	54	50	60	54	50		59	53	50		58	53	50	48
10	68	58	51	47	67	57	51	47	56	51	47		55	50	47		55	50	47	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	227385
5°	219370
10°	208763
15°	200789
20°	170354
25°	142102
30°	106364
35°	76373
40°	60274
45°	39973
50°	29195
55°	20686
60°	14243
65°	12240
70°	10716
75°	9187
80°	7481
85°	7452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39973 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	9.5
10°-20°	455.8	24.6
20°-30°	501.5	27.1
30°-40°	347.7	18.8
40°-50°	198.2	10.7
50°-60°	94.2	5.1
60°-70°	44.6	2.4
70°-80°	21.8	1.2
80°-90°	6.3	0.3
90°-100°	2.3	0.1
100°-110°	1.5	0.1
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°	1132.9	61.3
0°-40°	1480.6	80.0
0°-60°	1773.1	95.9
0°-90°	1845.8	99.8
90°-120°	3.8	0.2
90°-150°	3.8	0.2
90°-180°	4.0	0.2
0°-180°	1849.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1960	
5°	1884	176
15°	1672	456
25°	1110	501
35°	539	348
45°	244	198
55°	102	94
65°	45	45
75°	20	22
85°	6	6
90°	2	1
95°	2	2
105°	2	2
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°	1960.5
1°	1949.3
2°	1930.7
3°	1919.6
4°	1902.8
5°	1884.2
6°	1854.5
7°	1824.7
8°	1802.4
9°	1793.1
10°	1772.6
11°	1741.0
12°	1726.1
13°	1718.7
14°	1703.8
15°	1672.2
16°	1629.4
17°	1571.7
18°	1506.6
19°	1437.8
20°	1380.2
21°	1329.9
22°	1279.7
23°	1227.6
24°	1173.7
25°	1110.4
27.5°	950.5
30°	794.2
32.5°	647.3
35°	539.4
37.5°	461.3
40°	398.1
42.5°	318.1
45°	243.7
47.5°	195.3
50°	161.8
52.5°	132.1
55°	102.3
57.5°	78.1
60°	61.4
62.5°	52.1
65°	44.6
67.5°	37.2
70°	31.6
72.5°	26.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	20.5
77.5°	14.9
80°	11.2
82.5°	7.4
85°	5.6
87.5°	3.7
90°	1.9
92.5°	1.9
95°	1.9
97.5°	1.9
100°	3.7
102.5°	1.9
105°	1.9
107.5°	0.0
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)