

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: P701947

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701947
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-15-D010 / 340-EU4C-1020-9040-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

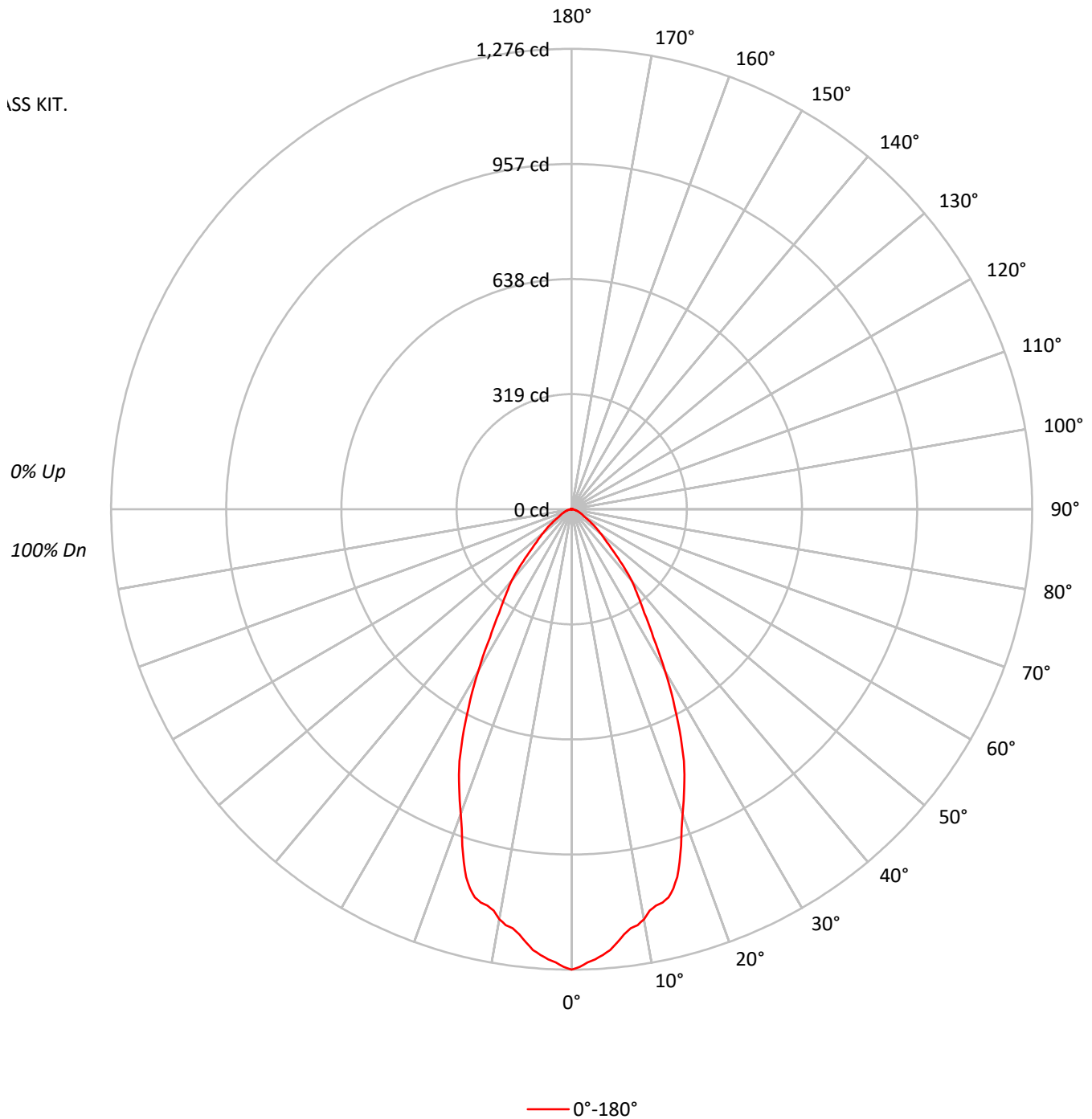
Lumens per Lamp: N/A
Luminaire Lumens: 1203.6 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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°	147971
5°	142762
10°	135862
15°	130665
20°	110862
25°	92486
30°	69226
35°	49698
40°	39214
45°	26014
50°	19000
55°	13467
60°	9255
65°	7986
70°	6986
75°	5960
80°	4876
85°	4791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26014 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	9.5
10°-20°	296.6	24.6
20°-30°	326.4	27.1
30°-40°	226.3	18.8
40°-50°	129.0	10.7
50°-60°	61.3	5.1
60°-70°	29.0	2.4
70°-80°	14.2	1.2
80°-90°	4.1	0.3
90°-100°	1.5	0.1
100°-110°	1.0	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°	737.3	61.3
0°-40°	963.5	80.1
0°-60°	1153.9	95.9
0°-90°	1201.2	99.8
90°-120°	2.4	0.2
90°-150°	2.4	0.2
90°-180°	2.0	0.2
0°-180°	1203.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1276	
5°	1226	114
15°	1088	297
25°	723	326
35°	351	226
45°	159	129
55°	67	61
65°	29	29
75°	13	14
85°	4	4
90°	1	1
95°	1	1
105°	1	1
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°	1275.8
1°	1268.6
2°	1256.5
3°	1249.2
4°	1238.3
5°	1226.2
6°	1206.8
7°	1187.5
8°	1172.9
9°	1166.9
10°	1153.6
11°	1133.0
12°	1123.3
13°	1118.5
14°	1108.8
15°	1088.2
16°	1060.4
17°	1022.8
18°	980.5
19°	935.7
20°	898.2
21°	865.5
22°	832.8
23°	798.9
24°	763.8
25°	722.7
27.5°	618.6
30°	516.9
32.5°	421.2
35°	351.0
37.5°	300.2
40°	259.0
42.5°	207.0
45°	158.6
47.5°	127.1
50°	105.3
52.5°	85.9
55°	66.6
57.5°	50.8
60°	39.9
62.5°	33.9
65°	29.1
67.5°	24.2
70°	20.6
72.5°	16.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	13.3
77.5°	9.7
80°	7.3
82.5°	4.8
85°	3.6
87.5°	2.4
90°	1.2
92.5°	1.2
95°	1.2
97.5°	1.2
100°	2.4
102.5°	1.2
105°	1.2
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)