

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: P701975

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701975
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-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

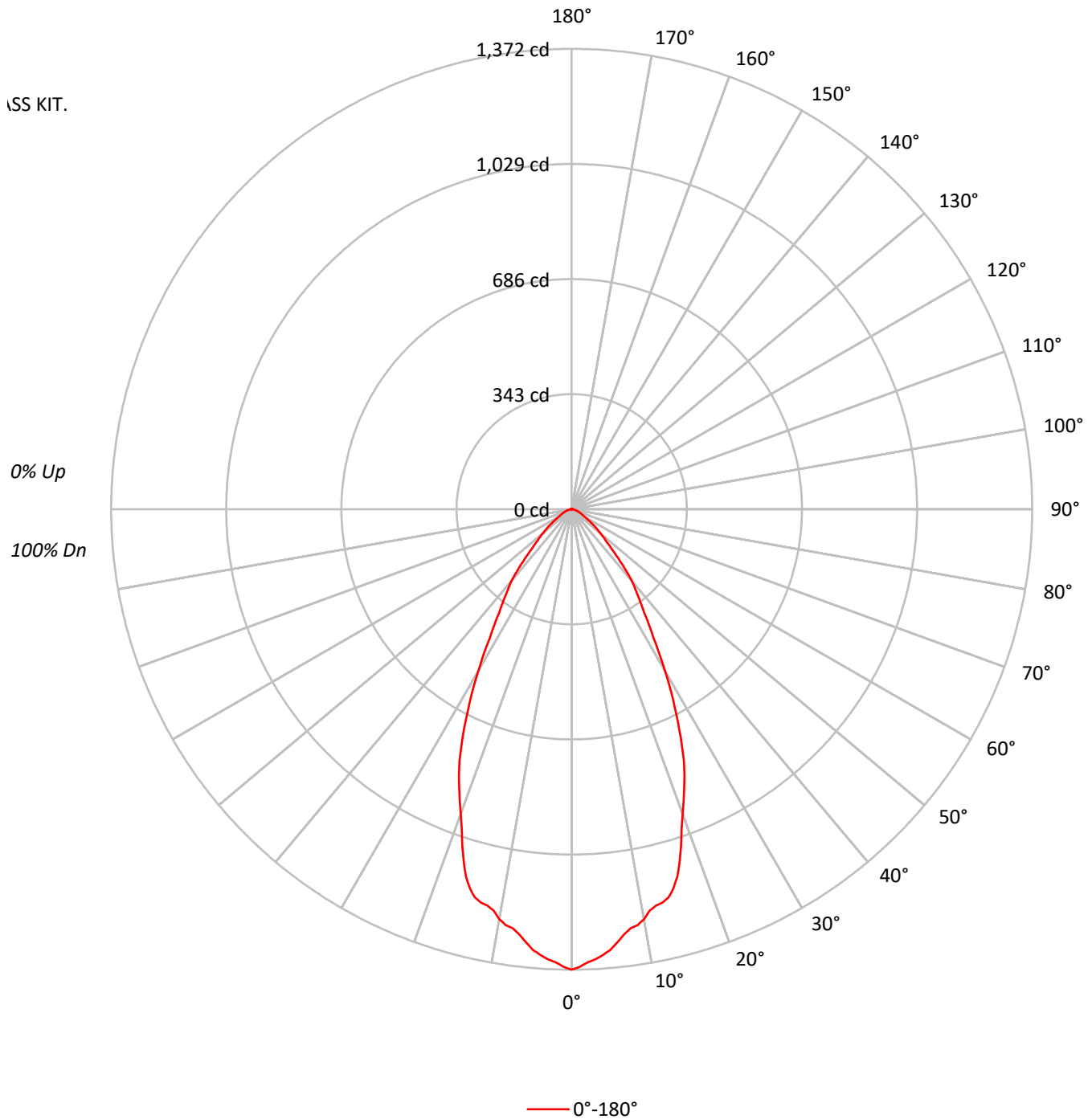
Lumens per Lamp: N/A
Luminaire Lumens: 1294.2 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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°	159106
5°	153508
10°	146085
15°	140499
20°	119193
25°	99435
30°	74436
35°	53436
40°	42166
45°	27966
50°	20426
55°	14478
60°	9975
65°	8563
70°	7494
75°	6408
80°	5210
85°	5190

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	9.5
10°-20°	319.0	24.6
20°-30°	350.9	27.1
30°-40°	243.3	18.8
40°-50°	138.7	10.7
50°-60°	65.9	5.1
60°-70°	31.2	2.4
70°-80°	15.2	1.2
80°-90°	4.4	0.3
90°-100°	1.6	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°	792.7	61.3
0°-40°	1036.0	80.1
0°-60°	1240.7	95.9
0°-90°	1291.5	99.8
90°-120°	2.6	0.2
90°-150°	2.6	0.2
90°-180°	3.0	0.2
0°-180°	1294.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1372	
5°	1318	123
15°	1170	319
25°	777	351
35°	377	243
45°	170	139
55°	72	66
65°	31	31
75°	14	15
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°	1371.8
1°	1364.0
2°	1351.0
3°	1343.2
4°	1331.5
5°	1318.5
6°	1297.6
7°	1276.8
8°	1261.2
9°	1254.7
10°	1240.4
11°	1218.2
12°	1207.8
13°	1202.6
14°	1192.2
15°	1170.1
16°	1140.1
17°	1099.8
18°	1054.2
19°	1006.1
20°	965.7
21°	930.6
22°	895.5
23°	859.0
24°	821.3
25°	777.0
27.5°	665.1
30°	555.8
32.5°	452.9
35°	377.4
37.5°	322.8
40°	278.5
42.5°	222.6
45°	170.5
47.5°	136.7
50°	113.2
52.5°	92.4
55°	71.6
57.5°	54.7
60°	43.0
62.5°	36.4
65°	31.2
67.5°	26.0
70°	22.1
72.5°	18.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	14.3
77.5°	10.4
80°	7.8
82.5°	5.2
85°	3.9
87.5°	2.6
90°	1.3
92.5°	1.3
95°	1.3
97.5°	1.3
100°	2.6
102.5°	1.3
105°	1.3
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)