

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: P702514

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-16)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GCC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

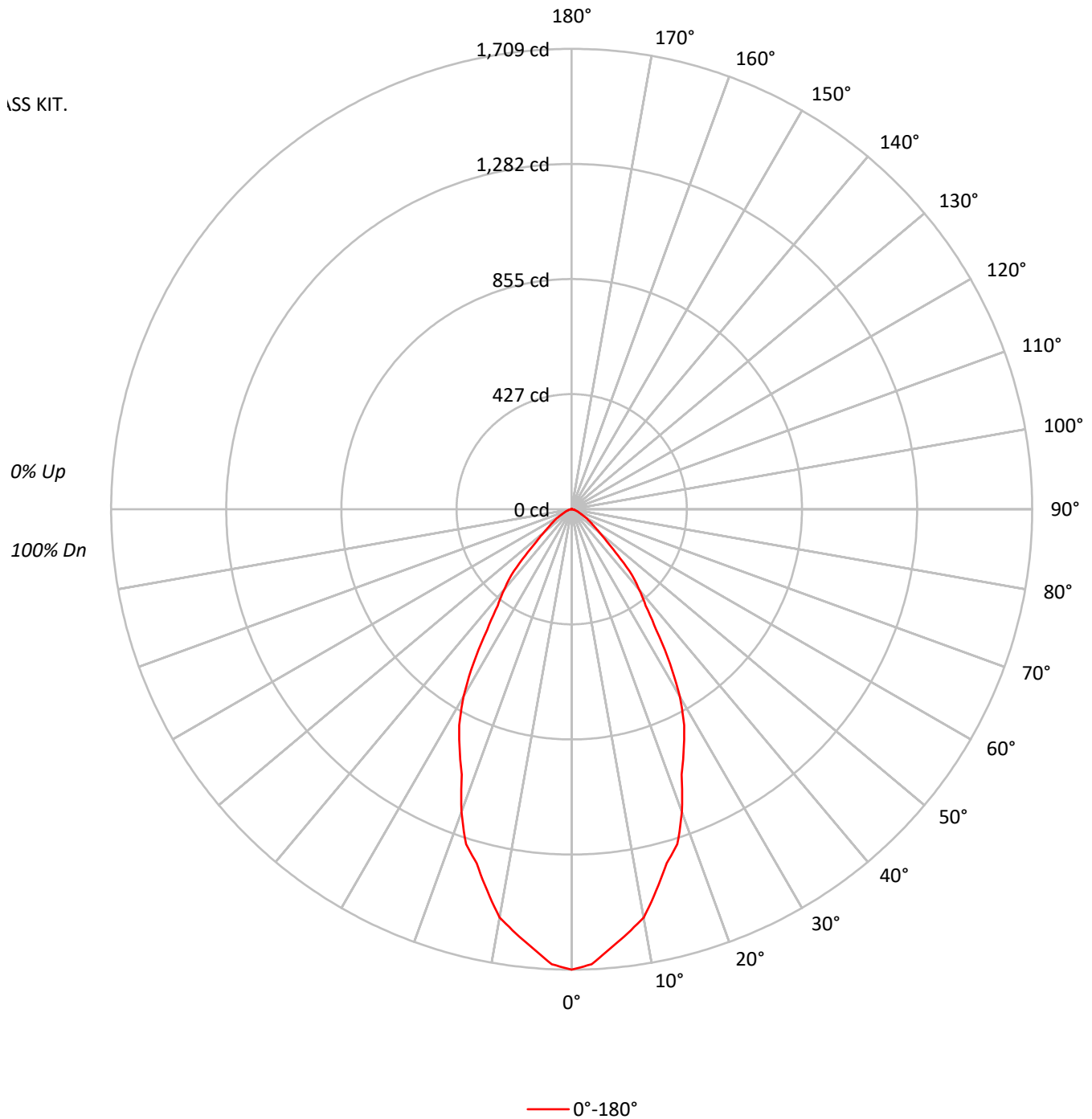
Lumens per Lamp: N/A
Luminaire Lumens: 1670.4 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

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	95	93	92
2	106	101	96	92	104	99	95	91	95	92	89		92	90	87		90	87	85	83
3	100	93	87	83	98	91	86	82	88	84	81		86	82	79		84	81	78	76
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	74	71	70
5	89	79	73	68	87	78	72	68	76	71	67		75	70	66		73	69	66	64
6	84	74	67	62	82	73	67	62	71	66	62		70	65	61		69	64	61	59
7	79	69	62	58	78	68	62	57	67	61	57		66	60	57		64	60	56	55
8	75	64	58	53	74	64	58	53	63	57	53		62	56	53		61	56	52	51
9	71	60	54	50	70	60	54	50	59	53	49		58	53	49		57	52	49	48
10	67	57	51	46	66	56	50	46	56	50	46		55	50	46		54	49	46	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	111490
5°	107181
10°	101954
15°	91904
20°	83028
25°	70833
30°	60440
35°	43533
40°	33232
45°	22346
50°	13824
55°	9953
60°	7242
65°	4940
70°	4177
75°	3403
80°	3156
85°	2545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	9.2
10°-20°	383.8	23.0
20°-30°	452.4	27.1
30°-40°	351.7	21.1
40°-50°	192.9	11.5
50°-60°	80.4	4.8
60°-70°	34.0	2.0
70°-80°	14.6	0.9
80°-90°	4.1	0.2
90°-100°	1.9	0.1
100°-110°	1.1	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°	989.5	59.2
0°-40°	1341.2	80.3
0°-60°	1614.6	96.7
0°-90°	1667.4	99.8
90°-120°	3.0	0.2
90°-150°	3.0	0.2
90°-180°	3.0	0.2
0°-180°	1670.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1709	
5°	1637	153
15°	1361	384
25°	984	452
35°	547	352
45°	242	193
55°	88	80
65°	32	34
75°	14	15
85°	3	4
90°	2	1
95°	2	1
105°	2	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°	1708.9
2.5°	1690.4
5°	1636.6
7.5°	1587.8
10°	1539.0
12.5°	1449.9
15°	1360.7
17.5°	1303.5
20°	1195.9
22.5°	1066.4
25°	984.0
27.5°	903.2
30°	802.3
32.5°	679.5
35°	546.6
37.5°	450.8
40°	390.2
42.5°	331.3
45°	242.2
47.5°	174.9
50°	136.2
52.5°	107.6
55°	87.5
57.5°	70.6
60°	55.5
62.5°	40.4
65°	32.0
67.5°	26.9
70°	21.9
72.5°	16.8
75°	13.5
77.5°	10.1
80°	8.4
82.5°	5.0
85°	3.4
87.5°	1.7
90°	1.7
92.5°	1.7
95°	1.7
97.5°	1.7
100°	1.7
102.5°	1.7
105°	1.7
107.5°	0.0
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)