

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: P702731

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702731
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-40-D010 / 340-EU4C-3040-9040-4LBW1LI-GCC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

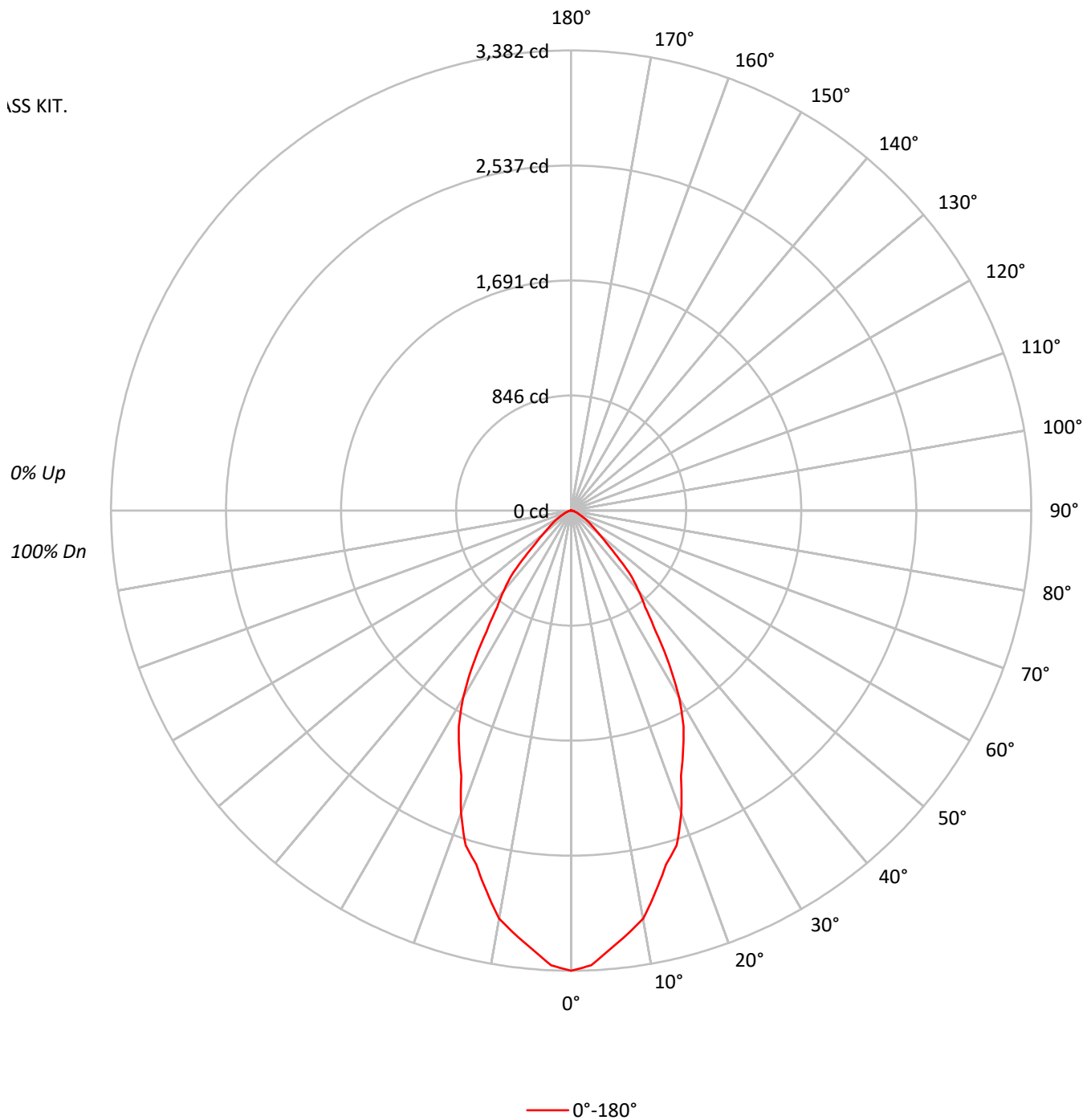
Lumens per Lamp: N/A
Luminaire Lumens: 3305.6 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	220637
5°	212108
10°	201769
15°	181884
20°	164314
25°	140177
30°	119614
35°	86159
40°	65773
45°	44222
50°	27363
55°	19689
60°	14327
65°	9756
70°	8260
75°	6705
80°	6237
85°	5015

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 44222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	9.2
10°-20°	759.5	23.0
20°-30°	895.4	27.1
30°-40°	696.1	21.1
40°-50°	381.8	11.6
50°-60°	159.2	4.8
60°-70°	67.3	2.0
70°-80°	28.9	0.9
80°-90°	8.2	0.2
90°-100°	3.6	0.1
100°-110°	2.2	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°	1958.3	59.2
0°-40°	2654.4	80.3
0°-60°	3195.4	96.7
0°-90°	3299.8	99.8
90°-120°	5.8	0.2
90°-150°	5.8	0.2
90°-180°	6.0	0.2
0°-180°	3305.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3382	
5°	3239	303
15°	2693	760
25°	1947	895
35°	1082	696
45°	479	382
55°	173	159
65°	63	67
75°	27	29
85°	7	7
90°	3	2
95°	3	3
105°	3	2
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°	3381.9
2.5°	3345.3
5°	3238.8
7.5°	3142.3
10°	3045.7
12.5°	2869.3
15°	2692.9
17.5°	2579.7
20°	2366.7
22.5°	2110.4
25°	1947.3
27.5°	1787.5
30°	1587.8
32.5°	1344.8
35°	1081.8
37.5°	892.1
40°	772.3
42.5°	655.7
45°	479.3
47.5°	346.2
50°	269.6
52.5°	213.0
55°	173.1
57.5°	139.8
60°	109.8
62.5°	79.9
65°	63.2
67.5°	53.3
70°	43.3
72.5°	33.3
75°	26.6
77.5°	20.0
80°	16.6
82.5°	10.0
85°	6.7
87.5°	3.3
90°	3.3
92.5°	3.3
95°	3.3
97.5°	3.3
100°	3.3
102.5°	3.3
105°	3.3
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)