

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: P702463

Luminaire Tested: 340-6C-15-D010 / 340-EU4C-1020-9727-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-15-D010 / 340-EU4C-1020-9727-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

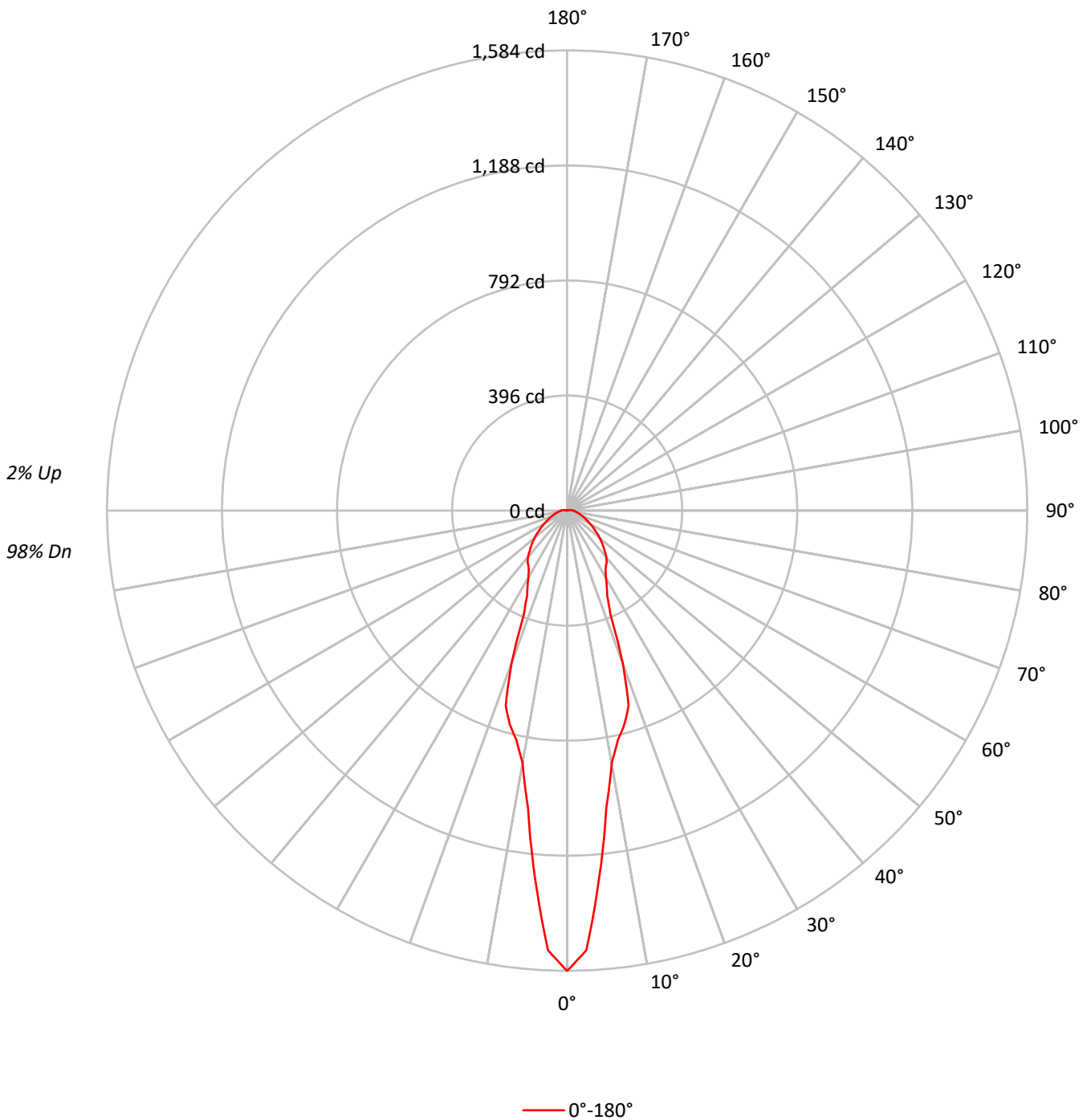
Lumens per Lamp: N/A
Luminaire Lumens: 1036.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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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CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9727-4LBW1LI-CQ

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	110	110	110		105	105	105		100	100	100	98
1	110	105	102	98	107	103	100	97	98	96	93		94	92	90		90	89	87	85
2	102	95	89	84	99	93	87	83	89	84	81		85	82	78		82	79	76	74
3	95	86	79	73	92	84	78	72	81	75	71		78	73	70		75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63		72	67	62		69	65	61	59
5	83	72	64	58	81	71	63	58	68	62	57		66	61	57		64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52		62	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	46
8	69	58	50	45	68	57	50	45	55	49	45		54	48	44		53	48	44	42
9	66	54	47	42	64	53	47	42	52	46	42		51	45	41		50	45	41	40
10	62	51	44	40	61	50	44	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103367
5°	74252
10°	47112
15°	37721
20°	25950
25°	14386
30°	11280
35°	9473
40°	8321
45°	6904
50°	5666
55°	4488
60°	3573
65°	2814
70°	2239
75°	1805
80°	1462
85°	1203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6904 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	10.5
10°-20°	208.1	20.1
20°-30°	161.5	15.6
30°-40°	146.9	14.2
40°-50°	136.3	13.2
50°-60°	104.9	10.1
60°-70°	71.8	6.9
70°-80°	46.6	4.5
80°-90°	29.0	2.8
90°-100°	16.8	1.6
100°-110°	5.3	0.5
110°-120°	0.2	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°	478.1	46.1
0°-40°	625.0	60.3
0°-60°	866.2	83.6
0°-90°	1013.7	97.8
90°-120°	22.3	2.2
90°-150°	22.3	2.2
90°-180°	22.0	2.1
0°-180°	1036.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1584	
5°	1269	108
15°	762	208
25°	327	162
35°	232	147
45°	177	136
55°	116	105
65°	71	72
75°	44	47
85°	27	23
90°	19	11
95°	16	12
105°	5	5
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°	1584.4
2.5°	1514.3
5°	1268.7
7.5°	1031.7
10°	881.7
12.5°	807.9
15°	762.0
17.5°	702.7
20°	558.8
22.5°	390.7
25°	326.6
27.5°	295.1
30°	267.3
32.5°	245.5
35°	232.2
37.5°	223.8
40°	209.2
42.5°	192.3
45°	176.6
47.5°	160.9
50°	146.3
52.5°	130.6
55°	116.1
57.5°	104.0
60°	91.9
62.5°	81.0
65°	71.4
67.5°	64.1
70°	55.6
72.5°	49.6
75°	43.5
77.5°	38.7
80°	33.9
82.5°	30.2
85°	26.6
87.5°	23.0
90°	19.4
92.5°	18.1
95°	15.7
97.5°	13.3
100°	9.7
102.5°	7.3
105°	4.8
107.5°	2.4
110°	1.2

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CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9727-4LBW1LI-CQ

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)