

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: P702750

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9730-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702750
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-40-D010 / 340-EU4C-3040-9730-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

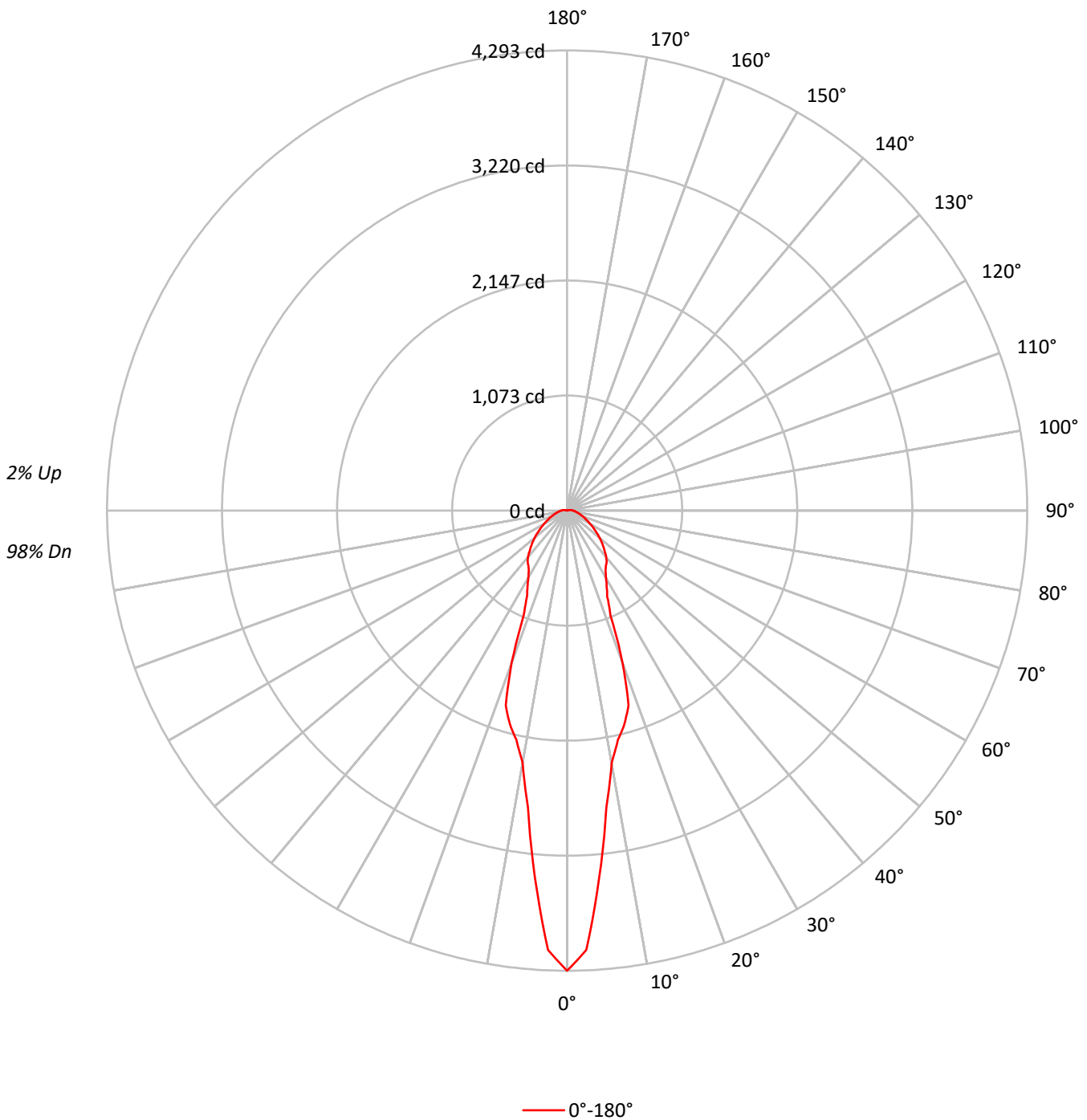
Lumens per Lamp: N/A
Luminaire Lumens: 2806.9 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 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	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°	280058
5°	201183
10°	127641
15°	102192
20°	70304
25°	38975
30°	30560
35°	25668
40°	22548
45°	18703
50°	15355
55°	12162
60°	9682
65°	7619
70°	6069
75°	4896
80°	3958
85°	3262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18703 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.8	10.5
10°-20°	563.8	20.1
20°-30°	437.6	15.6
30°-40°	398.1	14.2
40°-50°	369.3	13.2
50°-60°	284.3	10.1
60°-70°	194.6	6.9
70°-80°	126.3	4.5
80°-90°	78.6	2.8
90°-100°	45.6	1.6
100°-110°	14.4	0.5
110°-120°	0.4	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°	1295.2	46.1
0°-40°	1693.3	60.3
0°-60°	2346.9	83.6
0°-90°	2746.5	97.8
90°-120°	60.5	2.2
90°-150°	60.5	2.2
90°-180°	60.0	2.1
0°-180°	2806.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4293	
5°	3438	294
15°	2064	564
25°	885	438
35°	629	398
45°	478	369
55°	315	284
65°	193	195
75°	118	126
85°	72	63
90°	52	30
95°	43	32
105°	13	14
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°	4292.7
2.5°	4102.7
5°	3437.5
7.5°	2795.2
10°	2388.8
12.5°	2189.0
15°	2064.4
17.5°	1903.9
20°	1513.9
22.5°	1058.4
25°	884.8
27.5°	799.6
30°	724.2
32.5°	665.2
35°	629.2
37.5°	606.2
40°	566.9
42.5°	521.0
45°	478.4
47.5°	435.8
50°	396.5
52.5°	353.9
55°	314.6
57.5°	281.8
60°	249.0
62.5°	219.6
65°	193.3
67.5°	173.7
70°	150.7
72.5°	134.4
75°	118.0
77.5°	104.9
80°	91.8
82.5°	81.9
85°	72.1
87.5°	62.3
90°	52.4
92.5°	49.2
95°	42.6
97.5°	36.0
100°	26.2
102.5°	19.7
105°	13.1
107.5°	6.6
110°	3.3

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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)