

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: P702491

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9030-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702491
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-20-D010 / 340-EU4C-1020-9030-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

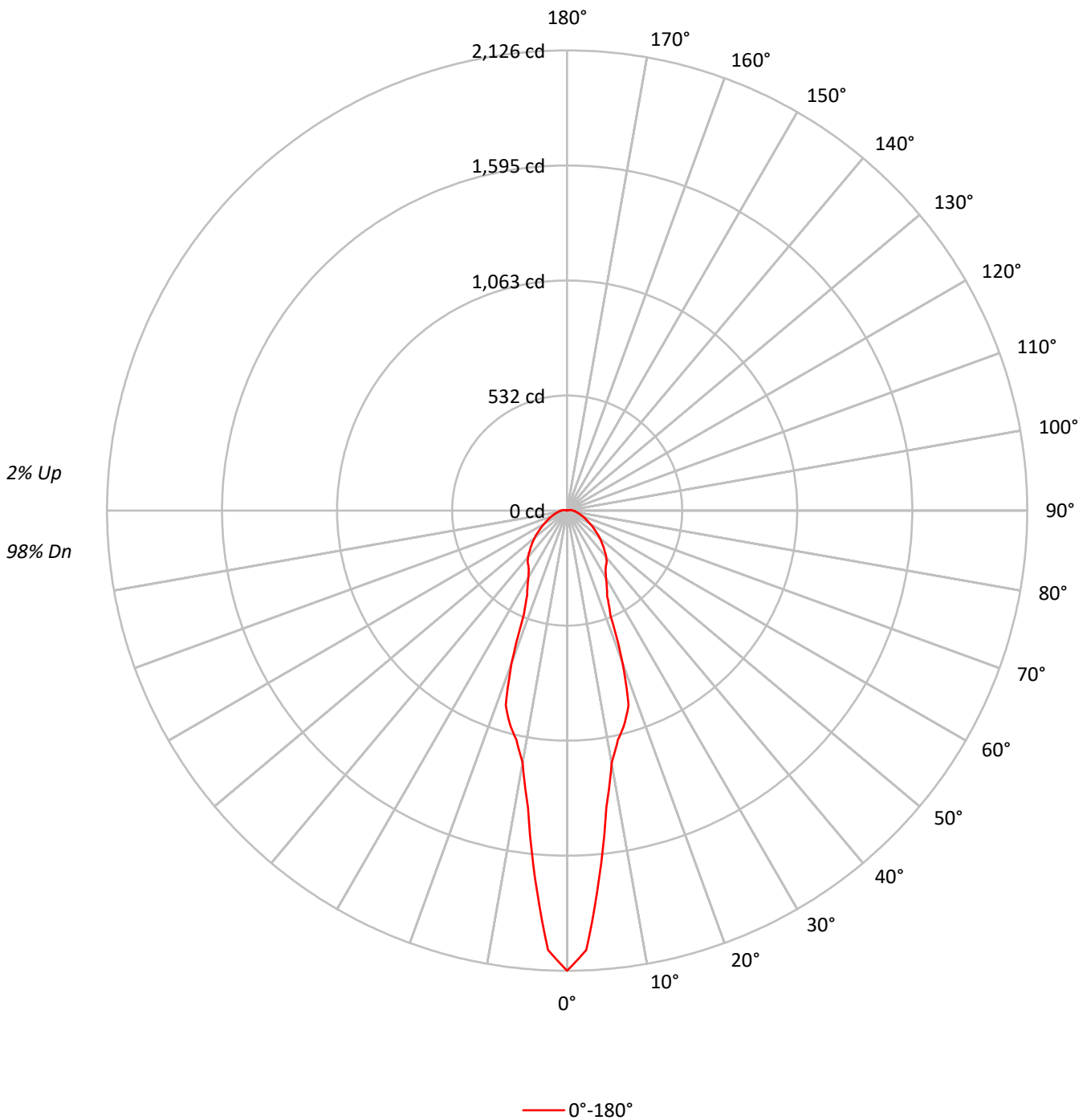
Lumens per Lamp: N/A
Luminaire Lumens: 1389.9 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 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	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°	138689
5°	99629
10°	63211
15°	50606
20°	34816
25°	19298
30°	15132
35°	12712
40°	11165
45°	9261
50°	7606
55°	6023
60°	4794
65°	3772
70°	3004
75°	2423
80°	1958
85°	1615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9261 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	10.5
10°-20°	279.2	20.1
20°-30°	216.7	15.6
30°-40°	197.2	14.2
40°-50°	182.9	13.2
50°-60°	140.8	10.1
60°-70°	96.3	6.9
70°-80°	62.5	4.5
80°-90°	38.9	2.8
90°-100°	22.6	1.6
100°-110°	7.1	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°	641.4	46.1
0°-40°	838.6	60.3
0°-60°	1162.3	83.6
0°-90°	1360.0	97.8
90°-120°	29.9	2.2
90°-150°	29.9	2.2
90°-180°	30.0	2.2
0°-180°	1389.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2126	
5°	1702	145
15°	1022	279
25°	438	217
35°	312	197
45°	237	183
55°	156	141
65°	96	96
75°	58	63
85°	36	31
90°	26	15
95°	21	16
105°	6	7
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°	2125.8
2.5°	2031.7
5°	1702.3
7.5°	1384.2
10°	1183.0
12.5°	1084.0
15°	1022.3
17.5°	942.8
20°	749.7
22.5°	524.2
25°	438.1
27.5°	396.0
30°	358.6
32.5°	329.4
35°	311.6
37.5°	300.2
40°	280.7
42.5°	258.0
45°	236.9
47.5°	215.8
50°	196.4
52.5°	175.3
55°	155.8
57.5°	139.6
60°	123.3
62.5°	108.7
65°	95.7
67.5°	86.0
70°	74.6
72.5°	66.5
75°	58.4
77.5°	51.9
80°	45.4
82.5°	40.6
85°	35.7
87.5°	30.8
90°	26.0
92.5°	24.3
95°	21.1
97.5°	17.9
100°	13.0
102.5°	9.7
105°	6.5
107.5°	3.2
110°	1.6

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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)