

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: P701995

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

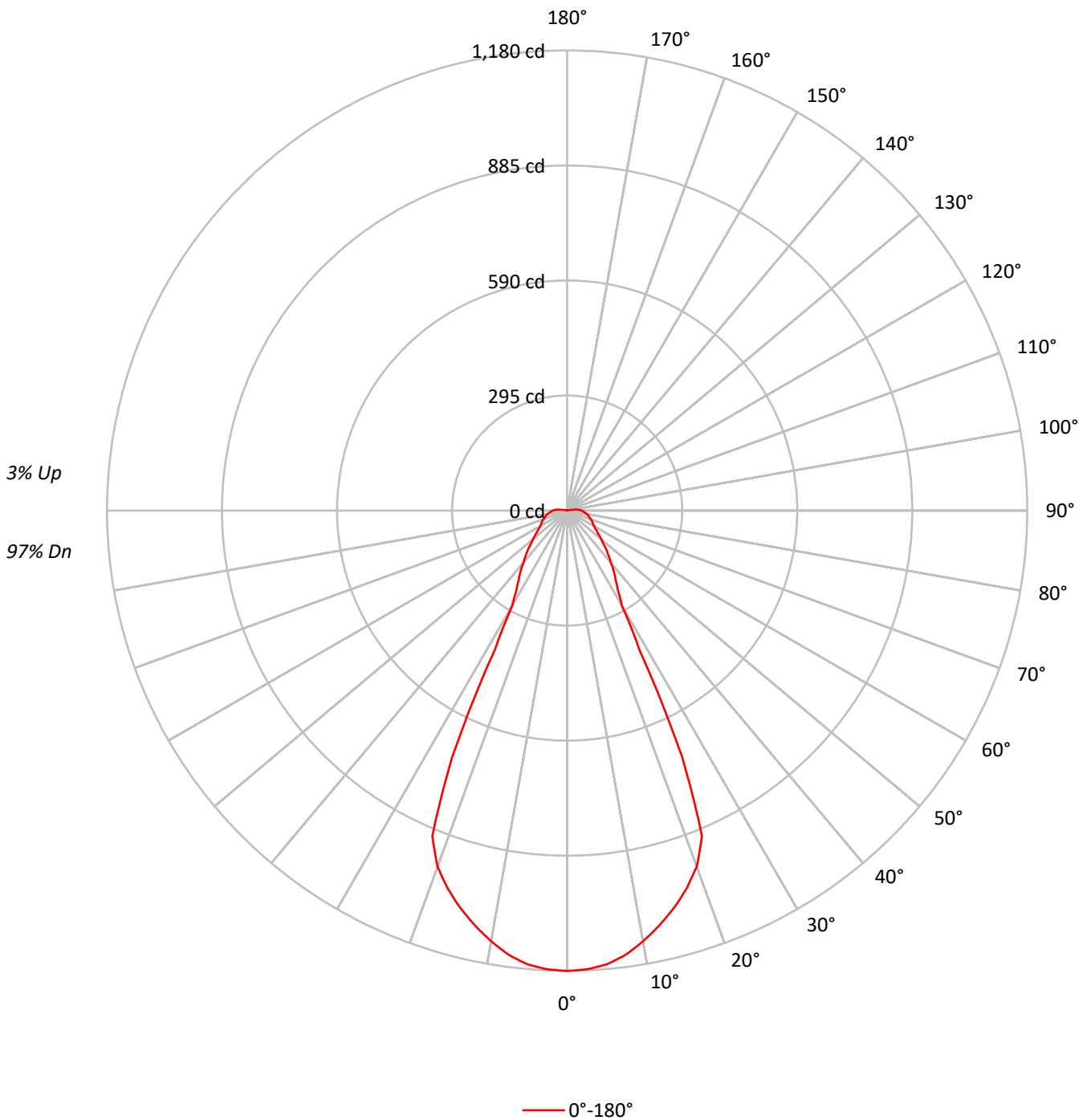
Lumens per Lamp: N/A
Luminaire Lumens: 1243.1 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

TEST NUMBER: P701995

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-FF

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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	109	105	102	98	107	103	99	96	98	95	93		94	92	90		90	88	86	84
2	102	95	89	85	99	93	88	83	89	85	81		86	82	79		82	80	77	75
3	95	87	80	75	93	85	79	74	82	77	72		79	75	71		76	73	69	67
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71	67	63	61
5	84	74	66	61	82	73	66	61	70	64	60		68	63	59		66	62	58	56
6	79	69	61	56	78	68	61	56	66	60	55		64	59	55		62	58	54	52
7	75	64	57	52	73	63	56	52	62	56	51		60	55	51		59	54	50	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		55	51	47	45
9	68	57	50	45	66	56	50	45	55	49	45		54	48	44		53	48	44	43
10	64	53	47	43	63	53	47	42	52	46	42		51	46	42		50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	136918
5°	118400
10°	101635
15°	87137
20°	74114
25°	49793
30°	18985
35°	14025
40°	10910
45°	8628
50°	6792
55°	5527
60°	4680
65°	4240
70°	3826
75°	3525
80°	3237
85°	2850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8628 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	8.8
10°-20°	296.1	23.8
20°-30°	292.9	23.6
30°-40°	137.4	11.1
40°-50°	109.7	8.8
50°-60°	84.7	6.8
60°-70°	71.1	5.7
70°-80°	61.0	4.9
80°-90°	47.6	3.8
90°-100°	27.5	2.2
100°-110°	5.0	0.4
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°	699.1	56.2
0°-40°	836.5	67.3
0°-60°	1030.9	82.9
0°-90°	1210.6	97.4
90°-120°	32.5	2.6
90°-150°	32.5	2.6
90°-180°	32.0	2.6
0°-180°	1243.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1180	
5°	1168	110
15°	1056	296
25°	697	293
35°	217	137
45°	142	110
55°	94	85
65°	72	71
75°	58	61
85°	44	37
90°	36	20
95°	26	18
105°	3	5
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1180.5
2.5°	1177.4
5°	1168.0
7.5°	1149.3
10°	1121.3
12.5°	1090.1
15°	1055.8
17.5°	1016.8
20°	971.5
22.5°	902.9
25°	697.1
27.5°	400.8
30°	280.7
32.5°	241.7
35°	216.8
37.5°	196.5
40°	174.7
42.5°	157.5
45°	141.9
47.5°	126.3
50°	113.8
52.5°	102.9
55°	93.6
57.5°	85.8
60°	79.5
62.5°	74.9
65°	71.7
67.5°	68.6
70°	63.9
72.5°	60.8
75°	57.7
77.5°	54.6
80°	51.5
82.5°	46.8
85°	43.7
87.5°	40.5
90°	35.9
92.5°	32.7
95°	26.5
97.5°	17.2
100°	12.5
102.5°	7.8
105°	3.1
107.5°	1.6
110°	0.0

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CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-FF

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)