

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: P702520

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9727-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-10)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9727-4LBW1LI-FF
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

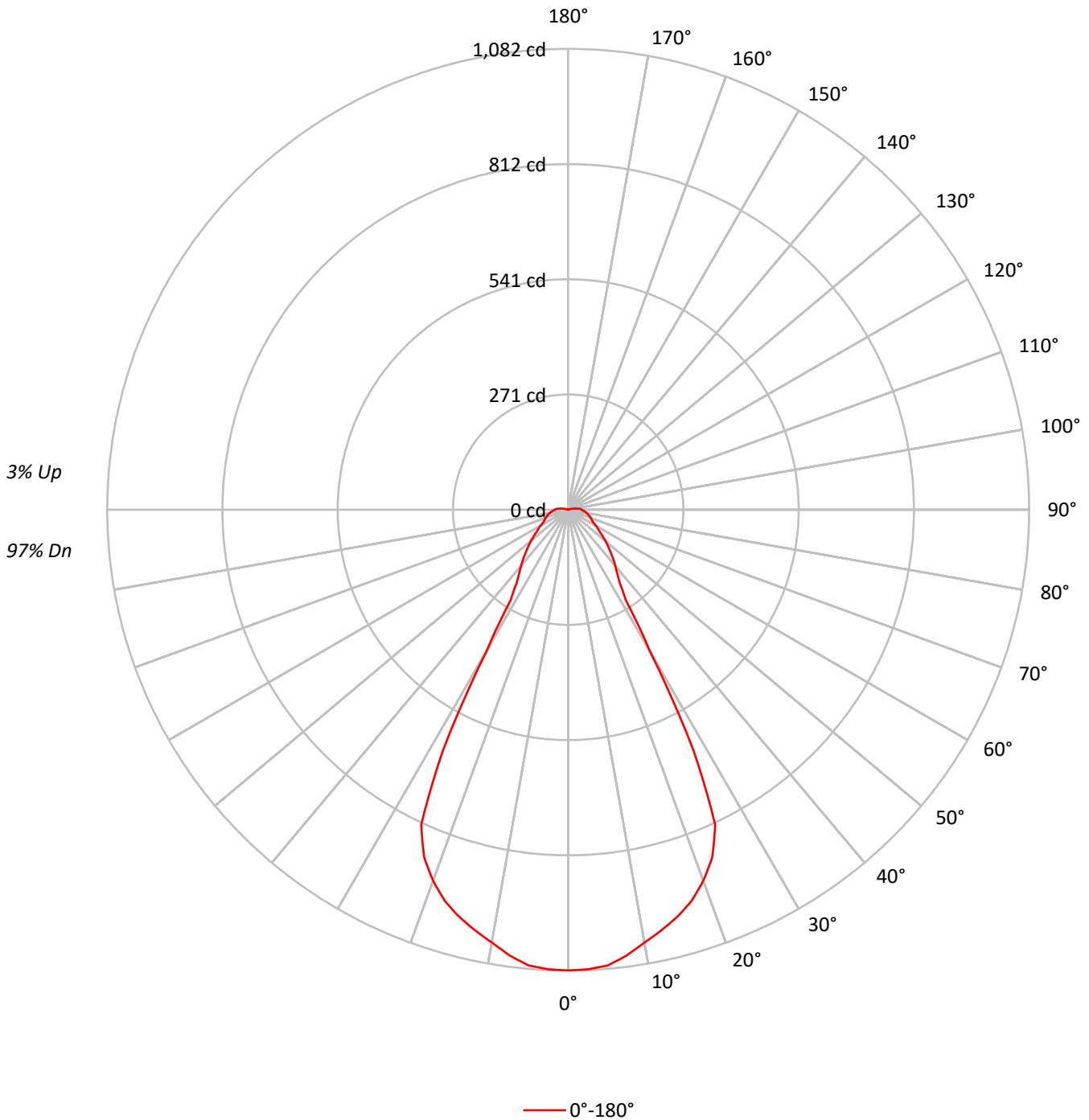
Lumens per Lamp: N/A
Luminaire Lumens: 1245.6 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		99	99	99	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	102	96	90	86	100	94	89	84	90	86	82		86	83	80		83	80	78	76
3	96	87	81	76	93	86	80	75	83	77	73		80	75	72		77	73	70	68
4	90	80	73	68	88	79	72	67	76	71	66		74	69	65		71	67	64	62
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		67	62	59	57
6	80	69	62	57	78	68	61	56	66	60	56		64	59	55		63	58	54	53
7	75	64	57	52	74	64	57	52	62	56	52		60	55	51		59	54	51	49
8	71	60	53	49	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	68	57	50	45	66	56	50	45	55	49	45		54	48	45		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°	70564
5°	62845
10°	55127
15°	48982
20°	43054
25°	35957
30°	16137
35°	8595
40°	6829
45°	5493
50°	4411
55°	3498
60°	2912
65°	2459
70°	2263
75°	2070
80°	1884
85°	1697

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	8.1
10°-20°	278.0	22.3
20°-30°	339.1	27.2
30°-40°	143.6	11.5
40°-50°	108.9	8.7
50°-60°	82.4	6.6
60°-70°	63.0	5.1
70°-80°	52.8	4.2
80°-90°	40.9	3.3
90°-100°	27.3	2.2
100°-110°	8.1	0.6
110°-120°	0.6	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°	718.1	57.6
0°-40°	861.7	69.2
0°-60°	1053.0	84.5
0°-90°	1209.7	97.1
90°-120°	36.0	2.9
90°-150°	36.0	2.9
90°-180°	36.0	2.9
0°-180°	1245.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1082	
5°	1074	101
15°	990	278
25°	816	339
35°	211	144
45°	140	109
55°	90	82
65°	62	63
75°	50	53
85°	38	32
90°	31	17
95°	26	19
105°	6	8
115°	0	1
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°	1081.6
2.5°	1080.0
5°	1073.8
7.5°	1055.1
10°	1031.7
12.5°	1011.4
15°	989.5
17.5°	963.0
20°	927.1
22.5°	883.4
25°	816.3
27.5°	636.8
30°	382.4
32.5°	251.3
35°	210.7
37.5°	188.9
40°	171.7
42.5°	156.1
45°	140.5
47.5°	126.4
50°	113.9
52.5°	101.4
55°	90.5
57.5°	82.7
60°	74.9
62.5°	67.1
65°	62.4
67.5°	59.3
70°	56.2
72.5°	53.1
75°	49.9
77.5°	46.8
80°	43.7
82.5°	40.6
85°	37.5
87.5°	34.3
90°	31.2
92.5°	29.7
95°	26.5
97.5°	20.3
100°	15.6
102.5°	10.9
105°	6.2
107.5°	4.7
110°	1.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.6
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)