

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: P702188

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9730-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-35-D010 / 340-EU4C-3040-9730-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

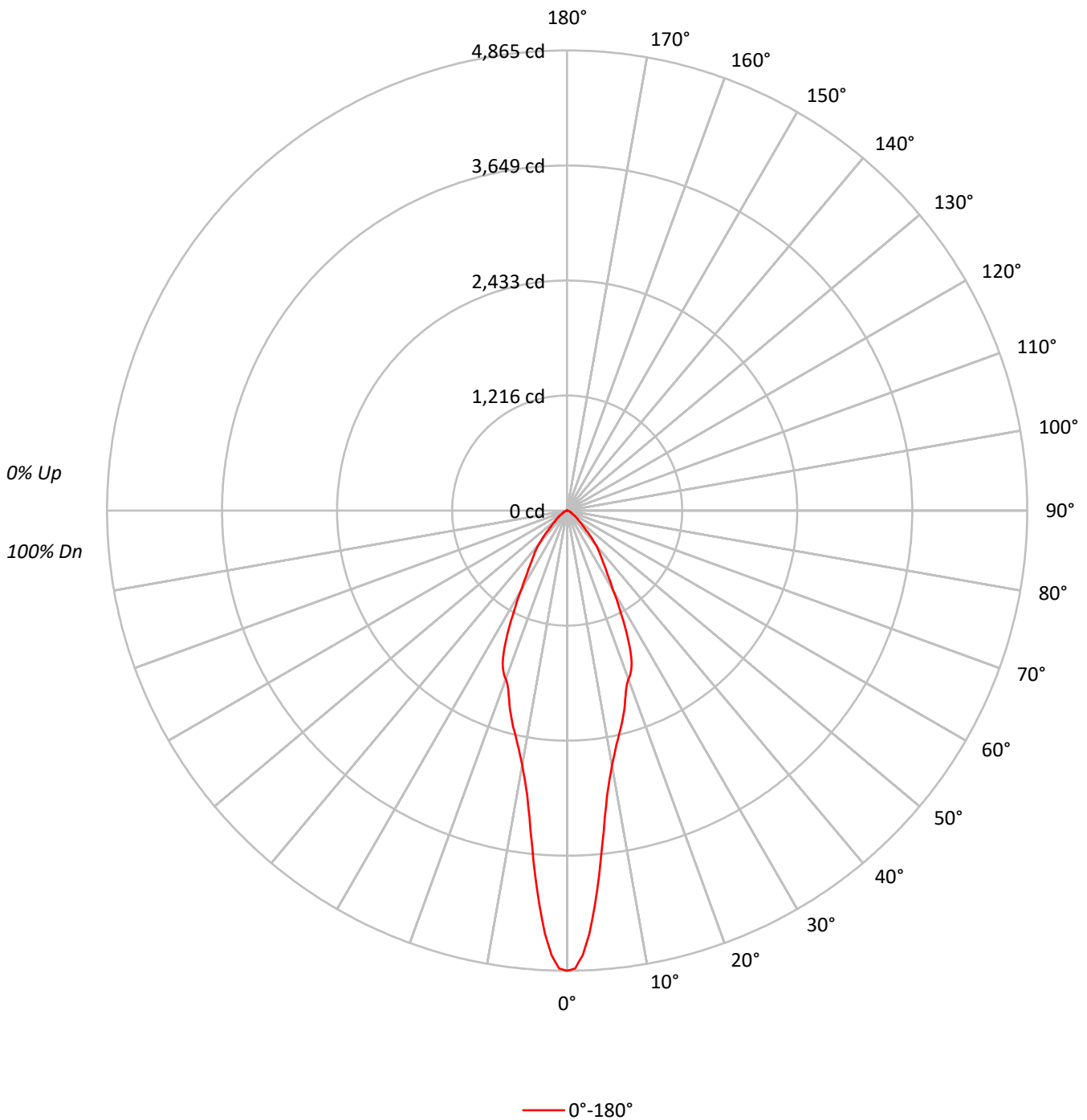
Lumens per Lamp: N/A
Luminaire Lumens: 2432.4 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	82	76	72	80	75	71		78	74	70		76	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65	61	57	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	52		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	564270
5°	450709
10°	322143
15°	273110
20°	234103
25°	198167
30°	130243
35°	92939
40°	70979
45°	41744
50°	27553
55°	20039
60°	13060
65°	11773
70°	10004
75°	7215
80°	5343
85°	3593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 41744 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.1	13.5
10°-20°	632.5	26.0
20°-30°	683.2	28.1
30°-40°	422.0	17.3
40°-50°	211.4	8.7
50°-60°	88.7	3.6
60°-70°	41.7	1.7
70°-80°	18.3	0.8
80°-90°	4.0	0.2
90°-100°	0.4	0.0
100°-110°	1.1	0.0
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°	1644.8	67.6
0°-40°	2066.8	85.0
0°-60°	2366.9	97.3
0°-90°	2431.0	99.9
90°-120°	1.5	0.1
90°-150°	1.5	0.1
90°-180°	1.0	0.0
0°-180°	2432.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4865	
5°	3871	329
15°	2274	633
25°	1548	683
35°	656	422
45°	254	211
55°	99	89
65°	43	42
75°	16	18
85°	3	4
90°	0	0
95°	0	1
105°	0	1
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°	4865.1
1°	4841.0
2°	4704.4
3°	4479.3
4°	4187.3
5°	3871.2
6°	3555.1
7°	3268.4
8°	3040.7
9°	2869.2
10°	2735.3
11°	2620.1
12°	2521.0
13°	2435.2
14°	2357.5
15°	2274.5
16°	2191.4
17°	2097.7
18°	2011.9
19°	1942.3
20°	1896.7
21°	1859.2
22°	1811.0
23°	1744.0
24°	1653.0
25°	1548.5
27.5°	1245.7
30°	972.5
32.5°	785.0
35°	656.4
37.5°	562.6
40°	468.8
42.5°	351.0
45°	254.5
47.5°	192.9
50°	152.7
52.5°	125.9
55°	99.1
57.5°	69.7
60°	56.3
62.5°	48.2
65°	42.9
67.5°	34.8
70°	29.5
72.5°	21.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	16.1
77.5°	13.4
80°	8.0
82.5°	5.4
85°	2.7
87.5°	2.7
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.7
102.5°	2.7
105°	0.0
107.5°	0.0
110°	0.0
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)