

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: P702638

Luminaire Tested: 340-6C-30-D010 / 340-EU4C-3040-9730-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702638
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-30-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

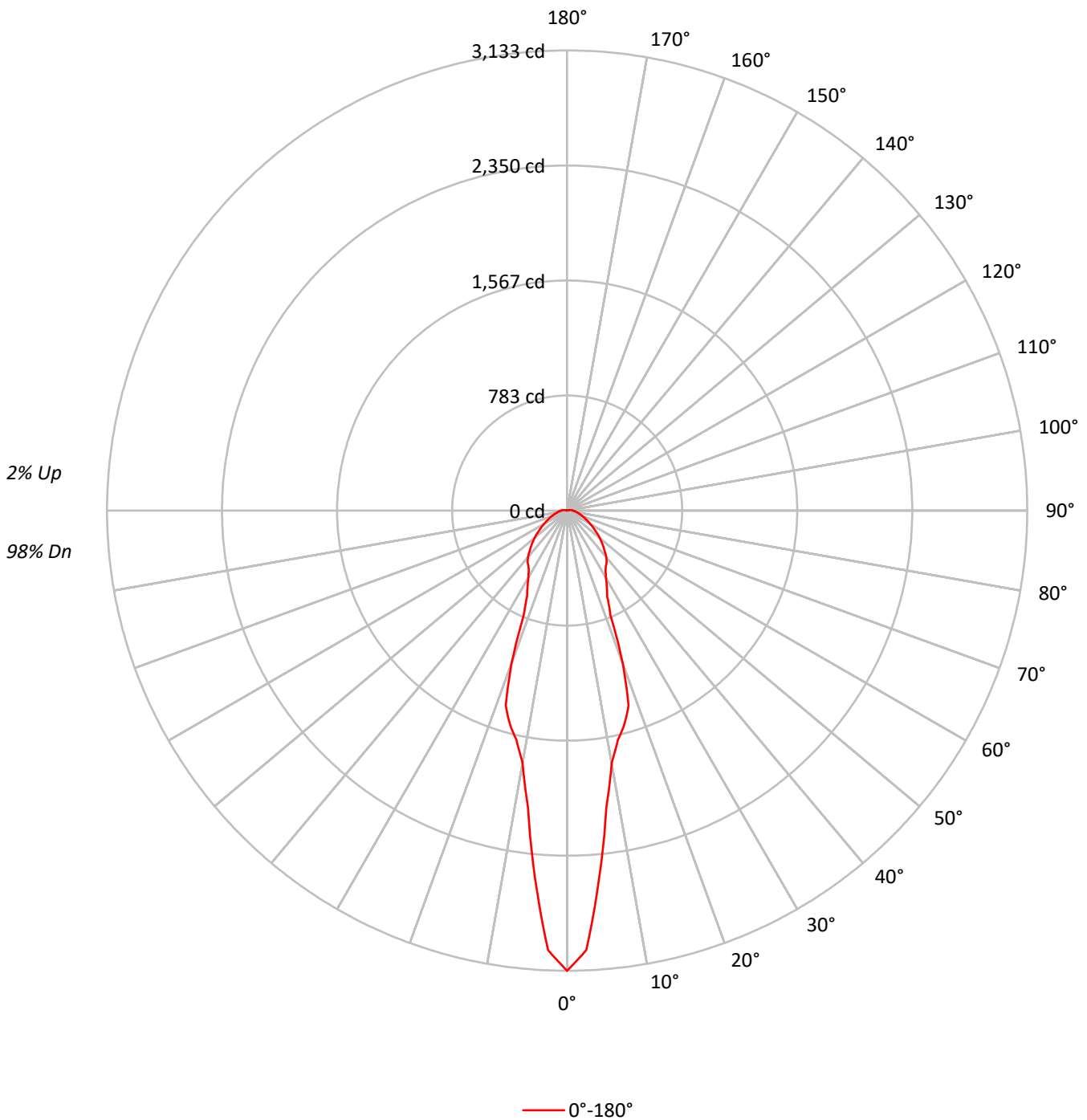
Lumens per Lamp: N/A
Luminaire Lumens: 2048.8 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 31.6
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°	204425
5°	146847
10°	93171
15°	74595
20°	51320
25°	28447
30°	22306
35°	18733
40°	16459
45°	13652
50°	11207
55°	8876
60°	7069
65°	5561
70°	4430
75°	3572
80°	2889
85°	2380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13652 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	10.5
10°-20°	411.5	20.1
20°-30°	319.4	15.6
30°-40°	290.6	14.2
40°-50°	269.6	13.2
50°-60°	207.5	10.1
60°-70°	142.0	6.9
70°-80°	92.2	4.5
80°-90°	57.4	2.8
90°-100°	33.3	1.6
100°-110°	10.5	0.5
110°-120°	0.3	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°	945.4	46.1
0°-40°	1236.0	60.3
0°-60°	1713.1	83.6
0°-90°	2004.7	97.8
90°-120°	44.1	2.2
90°-150°	44.1	2.2
90°-180°	44.0	2.1
0°-180°	2048.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3133	
5°	2509	214
15°	1507	412
25°	646	319
35°	459	291
45°	349	270
55°	230	207
65°	141	142
75°	86	92
85°	53	46
90°	38	22
95°	31	23
105°	10	11
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°	3133.4
2.5°	2994.7
5°	2509.1
7.5°	2040.3
10°	1743.7
12.5°	1597.8
15°	1506.9
17.5°	1389.7
20°	1105.1
22.5°	772.6
25°	645.8
27.5°	583.6
30°	528.6
32.5°	485.6
35°	459.2
37.5°	442.5
40°	413.8
42.5°	380.3
45°	349.2
47.5°	318.1
50°	289.4
52.5°	258.3
55°	229.6
57.5°	205.7
60°	181.8
62.5°	160.3
65°	141.1
67.5°	126.8
70°	110.0
72.5°	98.1
75°	86.1
77.5°	76.5
80°	67.0
82.5°	59.8
85°	52.6
87.5°	45.4
90°	38.3
92.5°	35.9
95°	31.1
97.5°	26.3
100°	19.1
102.5°	14.4
105°	9.6
107.5°	4.8
110°	2.4

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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)