

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: P702589

Luminaire Tested: 340-6C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702589
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-3040-9024-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

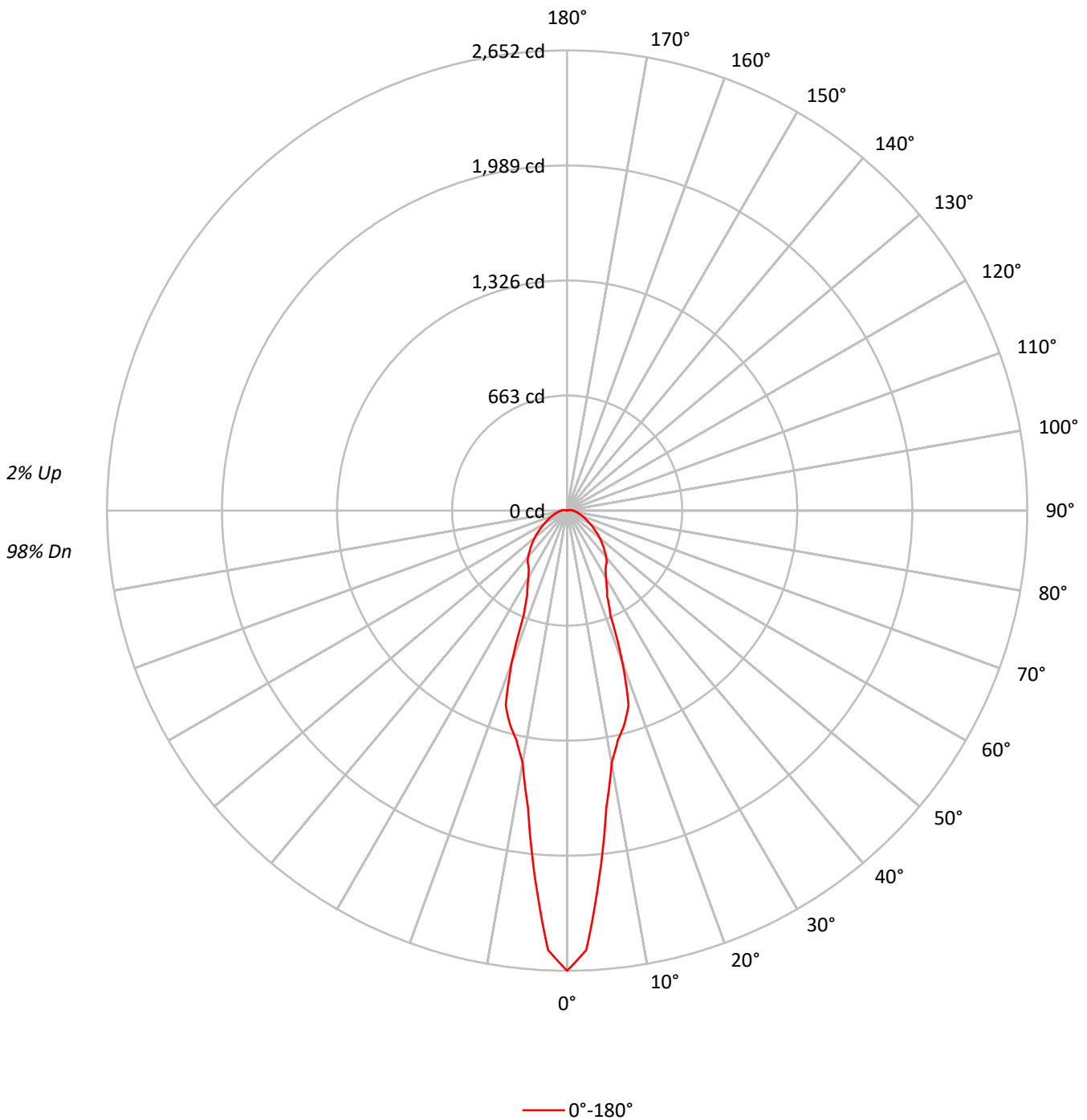
Lumens per Lamp: N/A
Luminaire Lumens: 1733.9 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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°	173005
5°	124274
10°	78851
15°	63130
20°	43430
25°	24073
30°	18879
35°	15857
40°	13929
45°	11552
50°	9484
55°	7511
60°	5980
65°	4706
70°	3749
75°	3024
80°	2445
85°	2013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11552 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	10.5
10°-20°	348.3	20.1
20°-30°	270.3	15.6
30°-40°	246.0	14.2
40°-50°	228.2	13.2
50°-60°	175.6	10.1
60°-70°	120.2	6.9
70°-80°	78.0	4.5
80°-90°	48.6	2.8
90°-100°	28.2	1.6
100°-110°	8.9	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°	800.1	46.1
0°-40°	1046.0	60.3
0°-60°	1449.8	83.6
0°-90°	1696.5	97.8
90°-120°	37.3	2.2
90°-150°	37.3	2.2
90°-180°	37.0	2.1
0°-180°	1733.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2652	
5°	2123	181
15°	1275	348
25°	546	270
35°	389	246
45°	296	228
55°	194	176
65°	119	120
75°	73	78
85°	44	39
90°	32	18
95°	26	20
105°	8	9
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°	2651.8
2.5°	2534.4
5°	2123.4
7.5°	1726.7
10°	1475.7
12.5°	1352.2
15°	1275.3
17.5°	1176.1
20°	935.2
22.5°	653.8
25°	546.5
27.5°	493.9
30°	447.4
32.5°	410.9
35°	388.7
37.5°	374.5
40°	350.2
42.5°	321.9
45°	295.5
47.5°	269.2
50°	244.9
52.5°	218.6
55°	194.3
57.5°	174.1
60°	153.8
62.5°	135.6
65°	119.4
67.5°	107.3
70°	93.1
72.5°	83.0
75°	72.9
77.5°	64.8
80°	56.7
82.5°	50.6
85°	44.5
87.5°	38.5
90°	32.4
92.5°	30.4
95°	26.3
97.5°	22.3
100°	16.2
102.5°	12.1
105°	8.1
107.5°	4.0
110°	2.0

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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)