

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: P394026

Luminaire Tested: **146-52-L5-827**

Issue Date: 4/2/2020

Test Information

Test Method: LM-79-08
Report Number: P394026
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33614)
Test Lab: INNOVATION CENTER
Issue Date: 4/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 146-52-L5-827
Description: SHAPER 106 FABRIQUE ROUND CYLINDER PENDANT
52 INCH HEIGHT
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

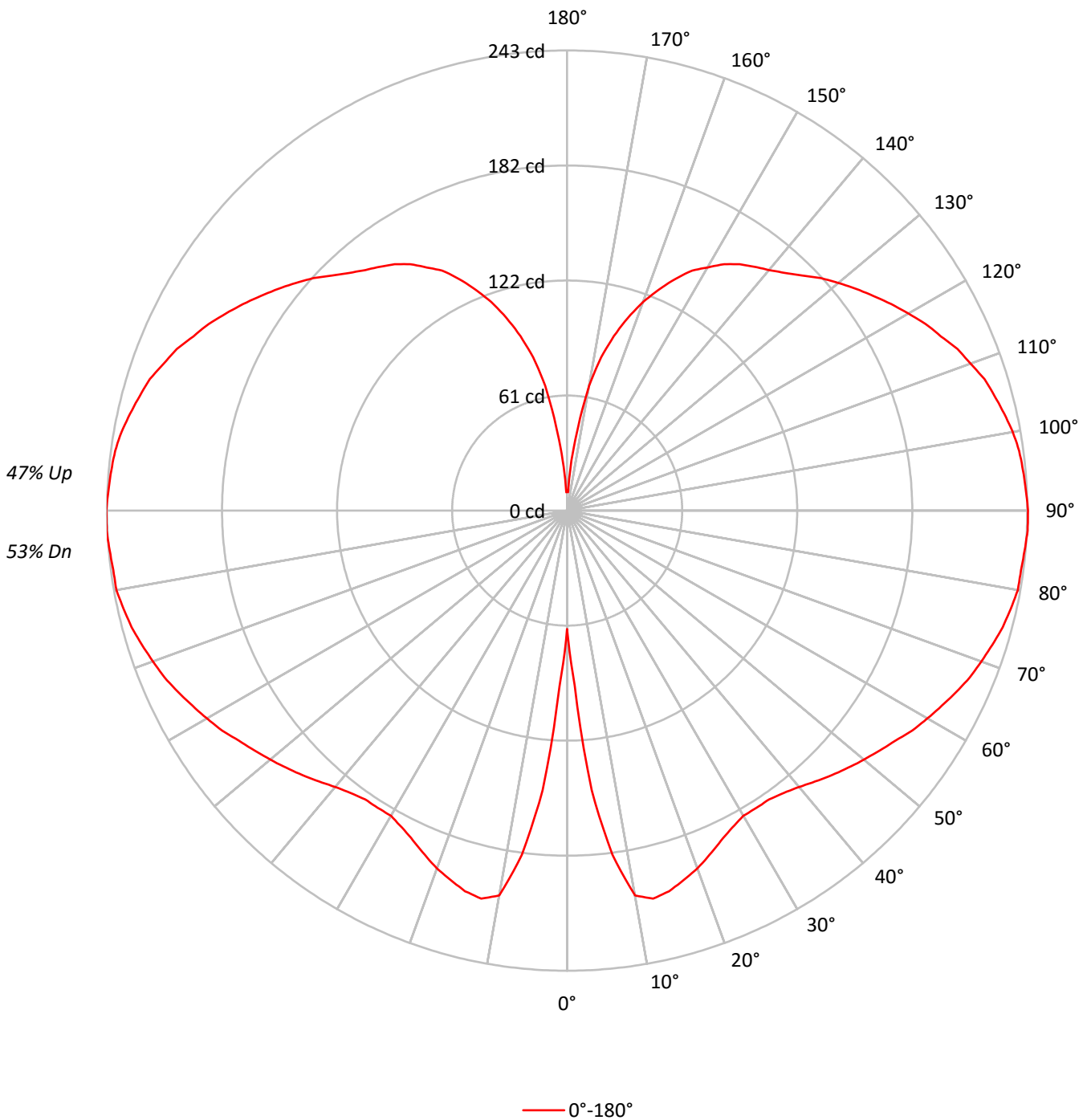
Lumens per Lamp: N/A
Luminaire Lumens: 2599.6 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 3.25 / 3.25 / 3.15
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 4.33')
CIE Type: General Diffuse

Input Watts (W): 39.7
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: 25 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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53
1	93	87	81	76	86	80	75	70	67	63	59	55	52	49	44	41	39	34
2	83	73	65	58	76	67	60	54	56	50	45	45	41	37	36	33	30	25
3	75	63	54	46	68	58	50	43	48	41	36	39	34	30	30	27	23	19
4	68	55	45	38	62	50	42	35	42	35	30	34	28	24	26	22	19	15
5	62	48	39	32	56	44	36	29	37	30	25	30	24	20	23	19	16	12
6	57	43	34	27	52	39	31	25	33	26	21	27	21	17	21	17	13	10
7	52	38	30	23	48	35	27	22	30	23	18	24	19	15	19	15	12	9
8	48	35	26	20	44	32	24	19	27	20	16	22	17	13	17	13	10	8
9	45	32	23	18	41	29	22	17	24	18	14	20	15	12	16	12	9	7
10	42	29	21	16	38	27	19	15	22	17	12	18	14	10	15	11	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1235
5°	1859
10°	1908
15°	1533
20°	1239
25°	1024
30°	879
35°	796
40°	749
45°	724
50°	707
55°	697
60°	695
65°	697
70°	700
75°	706
80°	713
85°	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	0.6
10°-20°	58.5	2.2
20°-30°	89.0	3.4
30°-40°	117.6	4.5
40°-50°	153.2	5.9
50°-60°	190.3	7.3
60°-70°	225.0	8.7
70°-80°	251.5	9.7
80°-90°	264.6	10.2
90°-100°	263.6	10.1
100°-110°	247.1	9.5
110°-120°	216.4	8.3
120°-130°	177.4	6.8
130°-140°	136.5	5.3
140°-150°	99.5	3.8
150°-160°	62.5	2.4
160°-170°	27.4	1.1
170°-180°	3.8	0.1
0°-30°	163.2	6.3
0°-40°	280.8	10.8
0°-60°	624.3	24.0
0°-90°	1365.3	52.5
90°-120°	727.1	28.0
90°-150°	1140.5	43.9
90°-180°	1234.0	47.5
0°-180°	2599.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	63	
5°	148	16
15°	208	58
25°	192	89
35°	186	118
45°	198	153
55°	212	190
65°	227	225
75°	238	251
85°	242	198
90°	243	133
95°	242	197
105°	234	247
115°	218	216
125°	198	177
135°	176	136
145°	159	100
155°	135	63
165°	95	27
175°	26	4
180°	11	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	62.6
2.5°	92.6
5°	148.2
7.5°	183.4
10°	206.4
12.5°	209.9
15°	208.1
17.5°	204.6
20°	201.1
22.5°	196.7
25°	192.3
27.5°	188.7
30°	186.1
32.5°	186.1
35°	186.1
37.5°	187.9
40°	190.5
42.5°	194.0
45°	197.6
47.5°	201.1
50°	204.6
52.5°	208.1
55°	211.7
57.5°	216.1
60°	219.6
62.5°	223.1
65°	226.7
67.5°	230.2
70°	232.8
72.5°	235.5
75°	238.1
77.5°	239.9
80°	241.7
82.5°	241.7
85°	242.5
87.5°	243.4
90°	243.4
92.5°	242.5
95°	241.7
97.5°	240.8
100°	239.0
102.5°	236.4
105°	233.7
107.5°	231.1
110°	226.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	223.1
115°	217.8
117.5°	213.4
120°	208.1
122.5°	202.9
125°	197.6
127.5°	192.3
130°	187.0
132.5°	181.7
135°	175.5
137.5°	170.2
140°	165.8
142.5°	162.3
145°	158.8
147.5°	154.3
150°	148.2
152.5°	142.9
155°	134.9
157.5°	126.1
160°	117.3
162.5°	106.7
165°	95.3
167.5°	82.9
170°	67.0
172.5°	45.0
175°	26.5
177.5°	9.7
180°	10.6

(END OF REPORT)