

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: P394029

Luminaire Tested: **146-52-L5-840**

Issue Date: 4/2/2020

Test Information

Test Method: LM-79-08
Report Number: P394029
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-L5-840
Description: SHAPER 106 FABRIQUE ROUND CYLINDER PENDANT
52 INCH HEIGHT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

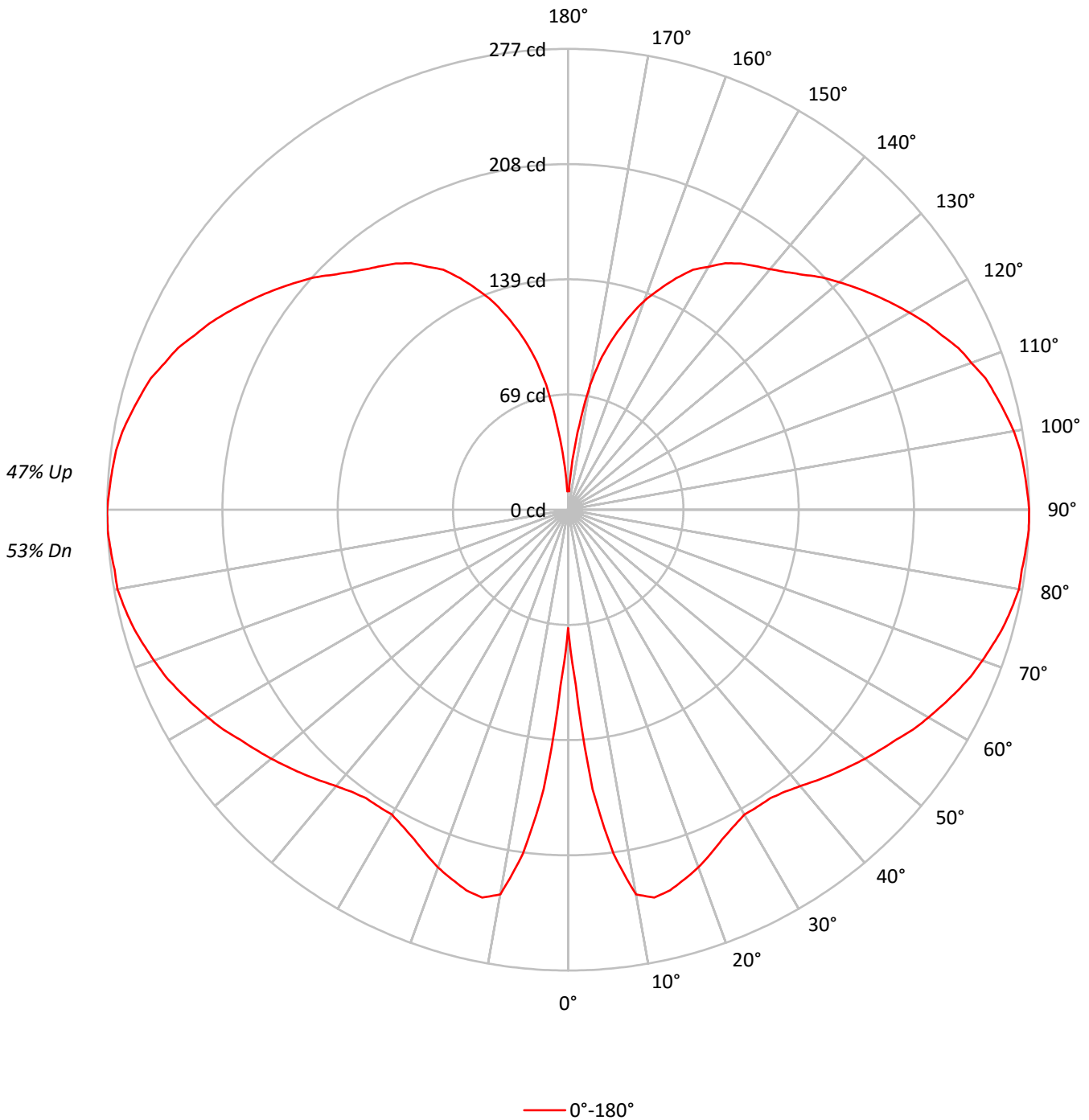
Lumens per Lamp: N/A
Luminaire Lumens: 2957.9 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 3.25 / 3.25 / 3.15
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 4.33')
CIE Type: General Diffuse

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°	1405
5°	2115
10°	2171
15°	1744
20°	1409
25°	1166
30°	1000
35°	905
40°	852
45°	823
50°	804
55°	792
60°	791
65°	792
70°	797
75°	803
80°	811
85°	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	0.6
10°-20°	66.5	2.2
20°-30°	101.3	3.4
30°-40°	133.8	4.5
40°-50°	174.3	5.9
50°-60°	216.6	7.3
60°-70°	256.0	8.7
70°-80°	286.1	9.7
80°-90°	301.1	10.2
90°-100°	299.9	10.1
100°-110°	281.1	9.5
110°-120°	246.3	8.3
120°-130°	201.9	6.8
130°-140°	155.3	5.3
140°-150°	113.2	3.8
150°-160°	71.2	2.4
160°-170°	31.2	1.1
170°-180°	4.3	0.1
0°-30°	185.7	6.3
0°-40°	319.5	10.8
0°-60°	710.3	24.0
0°-90°	1553.5	52.5
90°-120°	827.3	28.0
90°-150°	1297.7	43.9
90°-180°	1404.0	47.5
0°-180°	2957.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	71	
5°	169	18
15°	237	67
25°	219	101
35°	212	134
45°	225	174
55°	241	217
65°	258	256
75°	271	286
85°	276	225
90°	277	152
95°	275	224
105°	266	281
115°	248	246
125°	225	202
135°	200	155
145°	181	113
155°	154	71
165°	108	31
175°	30	4
180°	12	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	71.2
2.5°	105.4
5°	168.6
7.5°	208.7
10°	234.8
12.5°	238.8
15°	236.8
17.5°	232.8
20°	228.8
22.5°	223.8
25°	218.8
27.5°	214.8
30°	211.7
32.5°	211.7
35°	211.7
37.5°	213.7
40°	216.8
42.5°	220.8
45°	224.8
47.5°	228.8
50°	232.8
52.5°	236.8
55°	240.8
57.5°	245.9
60°	249.9
62.5°	253.9
65°	257.9
67.5°	261.9
70°	264.9
72.5°	267.9
75°	270.9
77.5°	273.0
80°	275.0
82.5°	275.0
85°	276.0
87.5°	277.0
90°	277.0
92.5°	276.0
95°	275.0
97.5°	274.0
100°	271.9
102.5°	268.9
105°	265.9
107.5°	262.9
110°	257.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	253.9
115°	247.9
117.5°	242.8
120°	236.8
122.5°	230.8
125°	224.8
127.5°	218.8
130°	212.7
132.5°	206.7
135°	199.7
137.5°	193.7
140°	188.7
142.5°	184.6
145°	180.6
147.5°	175.6
150°	168.6
152.5°	162.6
155°	153.5
157.5°	143.5
160°	133.5
162.5°	121.4
165°	108.4
167.5°	94.3
170°	76.3
172.5°	51.2
175°	30.1
177.5°	11.0
180°	12.0

(END OF REPORT)