

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: P402542

Luminaire Tested: **ShSe-CIR-2-L35-90-UNV-STD**

Issue Date: 6/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-737-3)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 6/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: ShSe-CIR-2-L35-90-UNV-STD  
Description: SHAPER SENSE CIRCLE  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

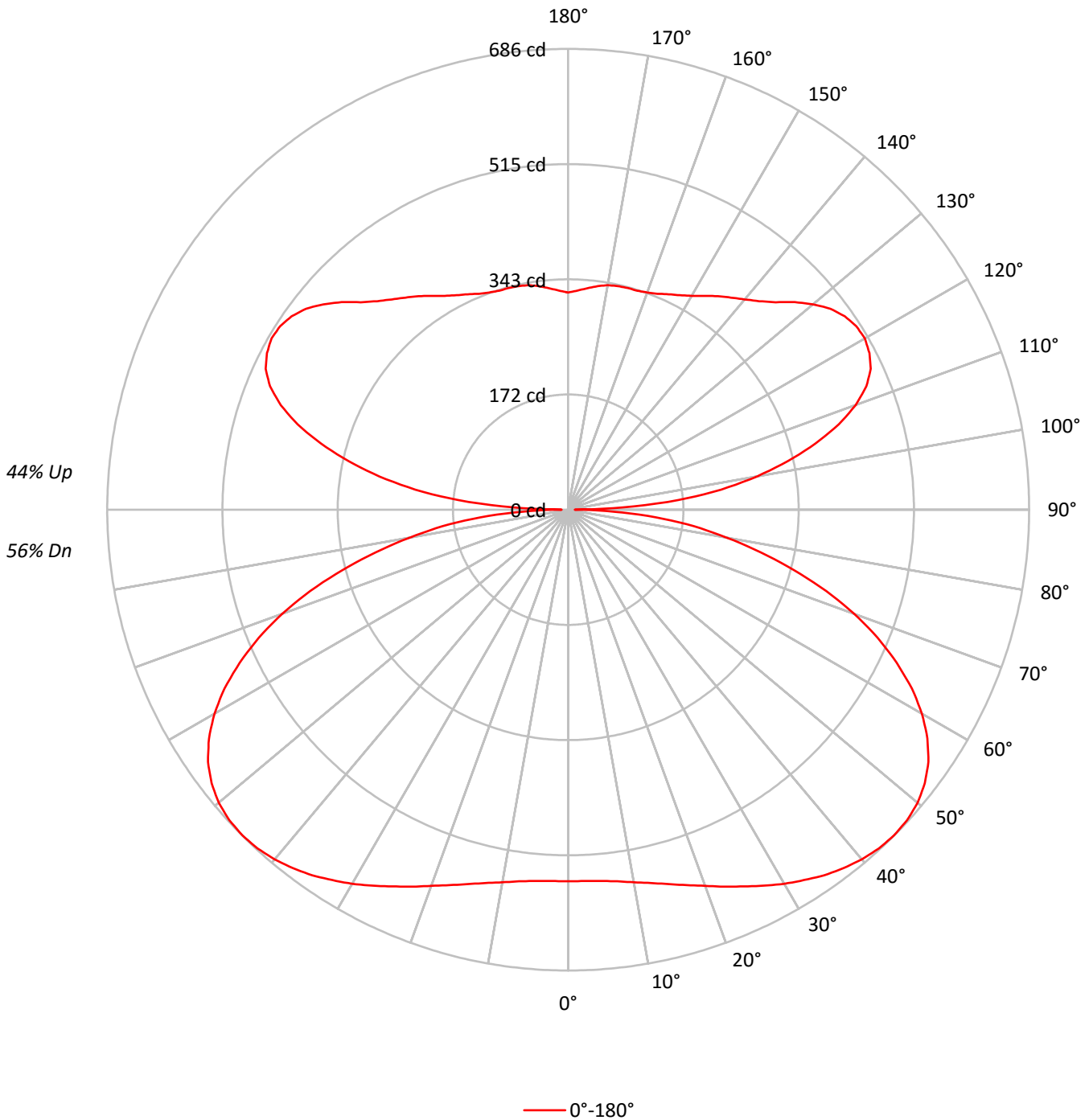
Lumens per Lamp: N/A  
Luminaire Lumens: 5452.7 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92  
Luminous Opening: Circular (Dia: 1.88' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 45.3  
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	98	92	88	84	90	86	82	78	74	71	68	62	60	58	52	50	49	44
2	88	79	72	66	81	73	67	62	63	58	54	53	50	46	44	41	39	35
3	79	68	60	53	73	63	56	50	54	49	44	46	41	38	38	35	32	28
4	72	60	51	44	66	55	48	41	47	41	36	40	35	31	33	29	26	23
5	65	53	44	37	60	49	41	35	42	35	30	35	30	26	29	25	22	19
6	60	47	38	31	55	43	35	30	37	31	26	31	26	22	26	22	19	16
7	55	42	33	27	51	39	31	26	33	27	22	28	23	19	23	19	16	14
8	51	38	29	24	47	35	28	22	30	24	20	26	21	17	21	17	14	12
9	47	34	26	21	44	32	25	20	28	21	17	23	18	15	20	16	13	10
10	44	31	23	18	41	29	22	17	25	19	15	22	17	13	18	14	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2157
5°	2171
10°	2229
15°	2328
20°	2472
25°	2661
30°	2894
35°	3161
40°	3458
45°	3780
50°	4117
55°	4448
60°	4740
65°	4976
70°	5161
75°	5239
80°	5381
85°	5886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	1.0
10°-20°	164.3	3.0
20°-30°	287.2	5.3
30°-40°	416.9	7.6
40°-50°	529.1	9.7
50°-60°	582.7	10.7
60°-70°	531.3	9.7
70°-80°	366.9	6.7
80°-90°	139.8	2.6
90°-100°	169.8	3.1
100°-110°	398.3	7.3
110°-120°	487.3	8.9
120°-130°	447.7	8.2
130°-140°	340.9	6.3
140°-150°	244.2	4.5
150°-160°	164.3	3.0
160°-170°	96.9	1.8
170°-180°	31.9	0.6
0°-30°	504.7	9.3
0°-40°	921.6	16.9
0°-60°	2033.4	37.3
0°-90°	3071.4	56.3
90°-120°	1055.4	19.4
90°-150°	2088.2	38.3
90°-180°	2381.0	43.7
0°-180°	5452.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	553	
5°	555	53
15°	577	164
25°	619	287
35°	664	417
45°	686	529
55°	654	583
65°	540	531
75°	348	367
85°	132	129
90°	10	23
95°	165	157
105°	381	398
115°	497	487
125°	502	448
135°	437	341
145°	388	244
155°	354	164
165°	342	97
175°	331	32
180°	323	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	553.2
2.5°	553.2
5°	554.7
7.5°	557.8
10°	563.1
12.5°	569.2
15°	576.8
17.5°	585.9
20°	595.8
22.5°	607.3
25°	618.7
27.5°	630.8
30°	643.0
32.5°	653.7
35°	664.3
37.5°	672.7
40°	679.5
42.5°	684.1
45°	685.6
47.5°	684.1
50°	678.8
52.5°	668.9
55°	654.4
57.5°	633.9
60°	608.0
62.5°	576.8
65°	539.5
67.5°	498.4
70°	452.8
72.5°	402.6
75°	347.8
77.5°	293.7
80°	239.7
82.5°	188.7
85°	131.6
87.5°	68.5
90°	9.9
92.5°	81.4
95°	165.1
97.5°	229.8
100°	285.4
102.5°	334.8
105°	381.2
107.5°	422.3
110°	455.1

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	480.2
115°	496.9
117.5°	505.3
120°	509.8
122.5°	508.3
125°	502.2
127.5°	491.6
130°	475.6
132.5°	457.3
135°	436.8
137.5°	420.8
140°	408.6
142.5°	398.0
145°	388.1
147.5°	377.4
150°	367.5
152.5°	359.9
155°	353.9
157.5°	347.8
160°	344.0
162.5°	341.7
165°	341.7
167.5°	340.9
170°	339.4
172.5°	335.6
175°	331.0
177.5°	326.5
180°	323.4

(END OF REPORT)