

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: P402544

Luminaire Tested: **ShSe-CIR-2-L40-90-UNV-STD**

Issue Date: 6/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402544  
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-L40-90-UNV-STD  
Description: SHAPER SENSE CIRCLE  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

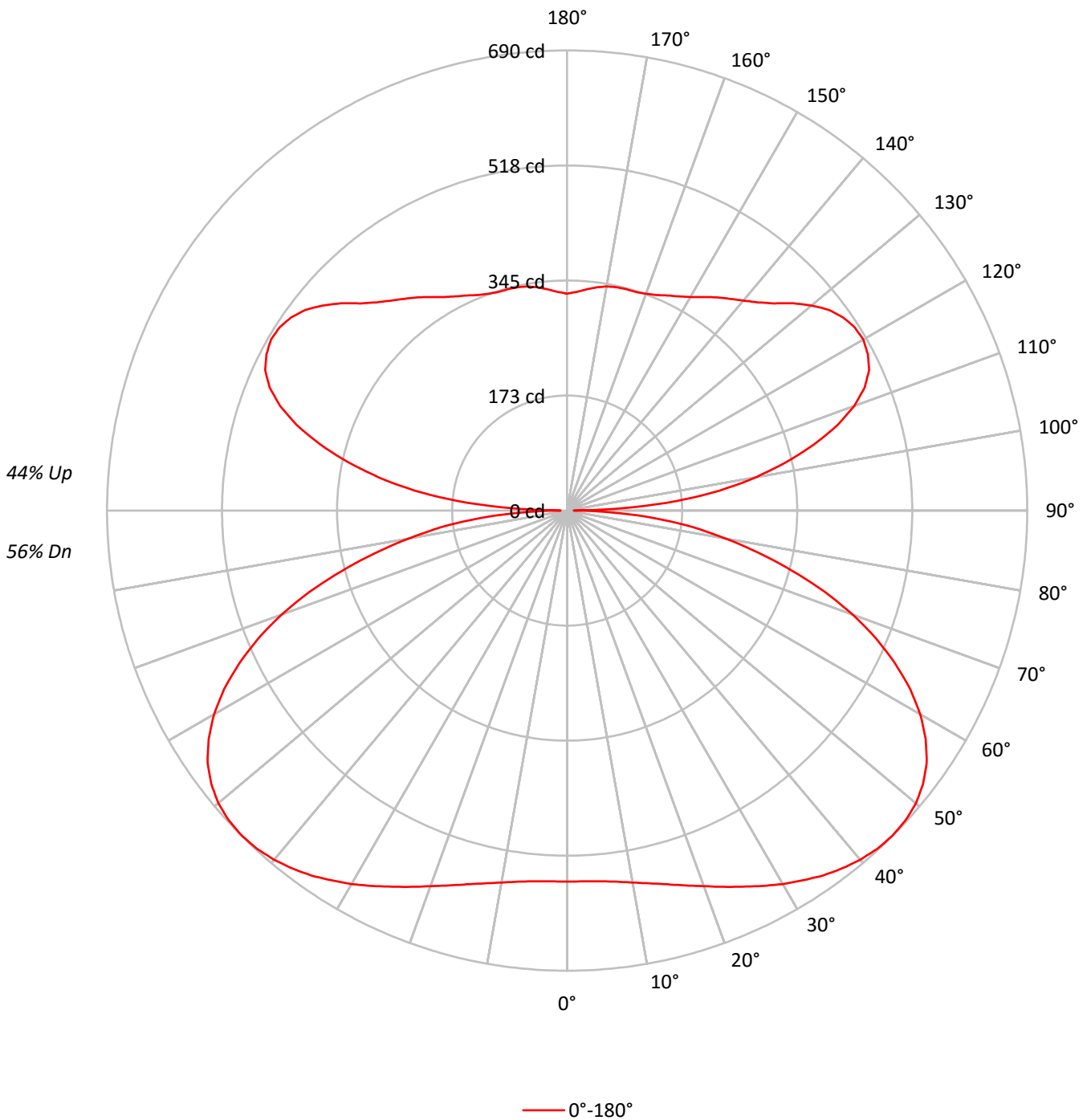
Lumens per Lamp: N/A  
Luminaire Lumens: 5483.8 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92  
Luminous Opening: Circular (Dia: 1.88' x H: 0')  
CIE Type: General Diffuse

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



TEST NUMBER: P402544  
CATALOG NUMBER: ShSe-CIR-2-L40-90-UNV-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P402544

CATALOG NUMBER: ShSe-CIR-2-L40-90-UNV-STD

**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°	2169
5°	2183
10°	2242
15°	2341
20°	2486
25°	2676
30°	2911
35°	3179
40°	3478
45°	3801
50°	4140
55°	4473
60°	4768
65°	5005
70°	5191
75°	5267
80°	5413
85°	5922



TEST NUMBER: P402544

CATALOG NUMBER: ShSe-CIR-2-L40-90-UNV-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	1.0
10°-20°	165.2	3.0
20°-30°	288.8	5.3
30°-40°	419.3	7.6
40°-50°	532.1	9.7
50°-60°	586.0	10.7
60°-70°	534.4	9.7
70°-80°	368.9	6.7
80°-90°	140.6	2.6
90°-100°	170.8	3.1
100°-110°	400.6	7.3
110°-120°	490.0	8.9
120°-130°	450.3	8.2
130°-140°	342.9	6.3
140°-150°	245.6	4.5
150°-160°	165.3	3.0
160°-170°	97.4	1.8
170°-180°	32.0	0.6
0°-30°	507.5	9.3
0°-40°	926.9	16.9
0°-60°	2045.0	37.3
0°-90°	3089.0	56.3
90°-120°	1061.4	19.4
90°-150°	2100.1	38.3
90°-180°	2395.0	43.7
0°-180°	5483.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	556	
5°	558	54
15°	580	165
25°	622	289
35°	668	419
45°	690	532
55°	658	586
65°	543	534
75°	350	369
85°	132	130
90°	10	23
95°	166	158
105°	383	401
115°	500	490
125°	505	450
135°	439	343
145°	390	246
155°	356	165
165°	344	97
175°	333	32
180°	325	



TEST NUMBER: P402544

CATALOG NUMBER: ShSe-CIR-2-L40-90-UNV-STD

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	556.4
2.5°	556.4
5°	557.9
7.5°	561.0
10°	566.3
12.5°	572.4
15°	580.1
17.5°	589.3
20°	599.2
22.5°	610.7
25°	622.2
27.5°	634.4
30°	646.7
32.5°	657.4
35°	668.1
37.5°	676.5
40°	683.4
42.5°	688.0
45°	689.5
47.5°	688.0
50°	682.7
52.5°	672.7
55°	658.2
57.5°	637.5
60°	611.5
62.5°	580.1
65°	542.6
67.5°	501.3
70°	455.4
72.5°	404.8
75°	349.7
77.5°	295.4
80°	241.1
82.5°	189.8
85°	132.4
87.5°	68.9
90°	9.9
92.5°	81.9
95°	166.1
97.5°	231.1
100°	287.0
102.5°	336.7
105°	383.4
107.5°	424.7
110°	457.7

TEST NUMBER: P402544

CATALOG NUMBER: ShSe-CIR-2-L40-90-UNV-STD

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	482.9
115°	499.7
117.5°	508.2
120°	512.8
122.5°	511.2
125°	505.1
127.5°	494.4
130°	478.3
132.5°	459.9
135°	439.3
137.5°	423.2
140°	411.0
142.5°	400.3
145°	390.3
147.5°	379.6
150°	369.6
152.5°	362.0
155°	355.9
157.5°	349.7
160°	345.9
162.5°	343.6
165°	343.6
167.5°	342.9
170°	341.3
172.5°	337.5
175°	332.9
177.5°	328.3
180°	325.3

(END OF REPORT)