

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: P402534

Luminaire Tested: **ShSe-CIR-1-L30-90-UNV-STD**

Issue Date: 6/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402534  
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-1-L30-90-UNV-STD  
Description: SHAPER SENSE CIRCLE  
LIGHT LEVEL 1  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

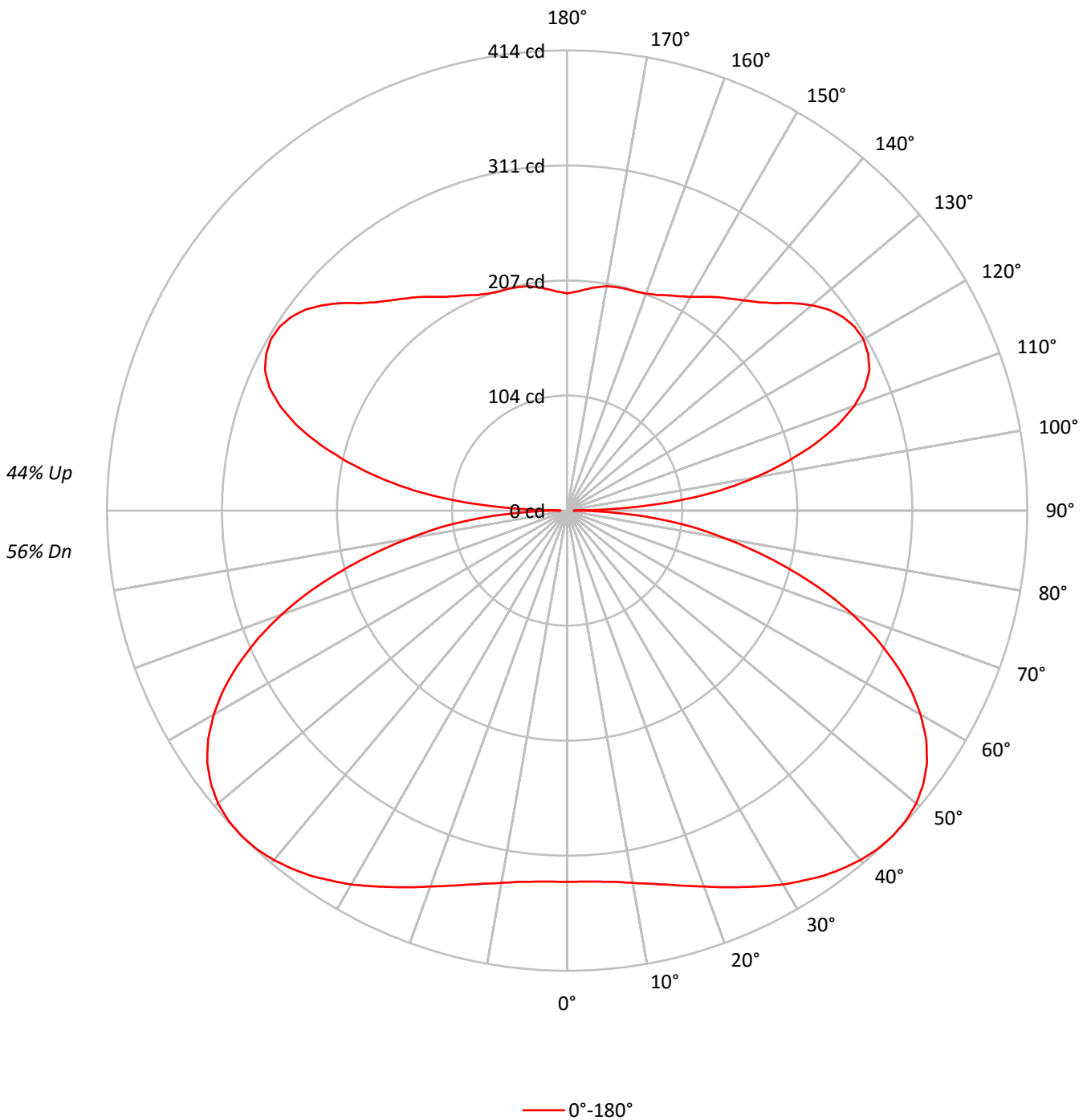
Lumens per Lamp: N/A  
Luminaire Lumens: 3293.4 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92  
Luminous Opening: Circular (Dia: 1.88' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 27.7  
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



TEST NUMBER: P402534  
CATALOG NUMBER: ShSe-CIR-1-L30-90-UNV-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P402534

CATALOG NUMBER: ShSe-CIR-1-L30-90-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°	1302
5°	1311
10°	1346
15°	1406
20°	1493
25°	1607
30°	1748
35°	1909
40°	2088
45°	2283
50°	2487
55°	2687
60°	2863
65°	3006
70°	3117
75°	3163
80°	3251
85°	3556



TEST NUMBER: P402534

CATALOG NUMBER: ShSe-CIR-1-L30-90-UNV-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.1	1.0
10°-20°	99.2	3.0
20°-30°	173.5	5.3
30°-40°	251.8	7.6
40°-50°	319.6	9.7
50°-60°	352.0	10.7
60°-70°	320.9	9.7
70°-80°	221.6	6.7
80°-90°	84.5	2.6
90°-100°	102.6	3.1
100°-110°	240.6	7.3
110°-120°	294.3	8.9
120°-130°	270.4	8.2
130°-140°	205.9	6.3
140°-150°	147.5	4.5
150°-160°	99.2	3.0
160°-170°	58.5	1.8
170°-180°	19.2	0.6
0°-30°	304.8	9.3
0°-40°	556.6	16.9
0°-60°	1228.2	37.3
0°-90°	1855.1	56.3
90°-120°	637.4	19.4
90°-150°	1261.3	38.3
90°-180°	1438.0	43.7
0°-180°	3293.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	334	
5°	335	32
15°	348	99
25°	374	173
35°	401	252
45°	414	320
55°	395	352
65°	326	321
75°	210	222
85°	80	78
90°	6	14
95°	100	95
105°	230	241
115°	300	294
125°	303	270
135°	264	206
145°	234	147
155°	214	99
165°	206	58
175°	200	19
180°	195	



TEST NUMBER: P402534

CATALOG NUMBER: ShSe-CIR-1-L30-90-UNV-STD

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	334.1
2.5°	334.1
5°	335.1
7.5°	336.9
10°	340.1
12.5°	343.8
15°	348.4
17.5°	353.9
20°	359.9
22.5°	366.8
25°	373.7
27.5°	381.0
30°	388.4
32.5°	394.8
35°	401.2
37.5°	406.3
40°	410.4
42.5°	413.2
45°	414.1
47.5°	413.2
50°	410.0
52.5°	404.0
55°	395.3
57.5°	382.9
60°	367.2
62.5°	348.4
65°	325.9
67.5°	301.0
70°	273.5
72.5°	243.1
75°	210.0
77.5°	177.4
80°	144.8
82.5°	114.0
85°	79.5
87.5°	41.4
90°	6.0
92.5°	49.2
95°	99.7
97.5°	138.8
100°	172.4
102.5°	202.2
105°	230.3
107.5°	255.1
110°	274.8

TEST NUMBER: P402534

CATALOG NUMBER: ShSe-CIR-1-L30-90-UNV-STD

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	290.0
115°	300.1
117.5°	305.2
120°	307.9
122.5°	307.0
125°	303.3
127.5°	296.9
130°	287.3
132.5°	276.2
135°	263.8
137.5°	254.2
140°	246.8
142.5°	240.4
145°	234.4
147.5°	228.0
150°	222.0
152.5°	217.4
155°	213.7
157.5°	210.0
160°	207.7
162.5°	206.4
165°	206.4
167.5°	205.9
170°	205.0
172.5°	202.7
175°	199.9
177.5°	197.2
180°	195.3

(END OF REPORT)