

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: P402541

Luminaire Tested: **ShSe-CIR-2-L35-80-UNV-STD**

Issue Date: 6/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402541  
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-L35-80-UNV-STD  
Description: SHAPER SENSE CIRCLE  
LIGHT LEVEL 2  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

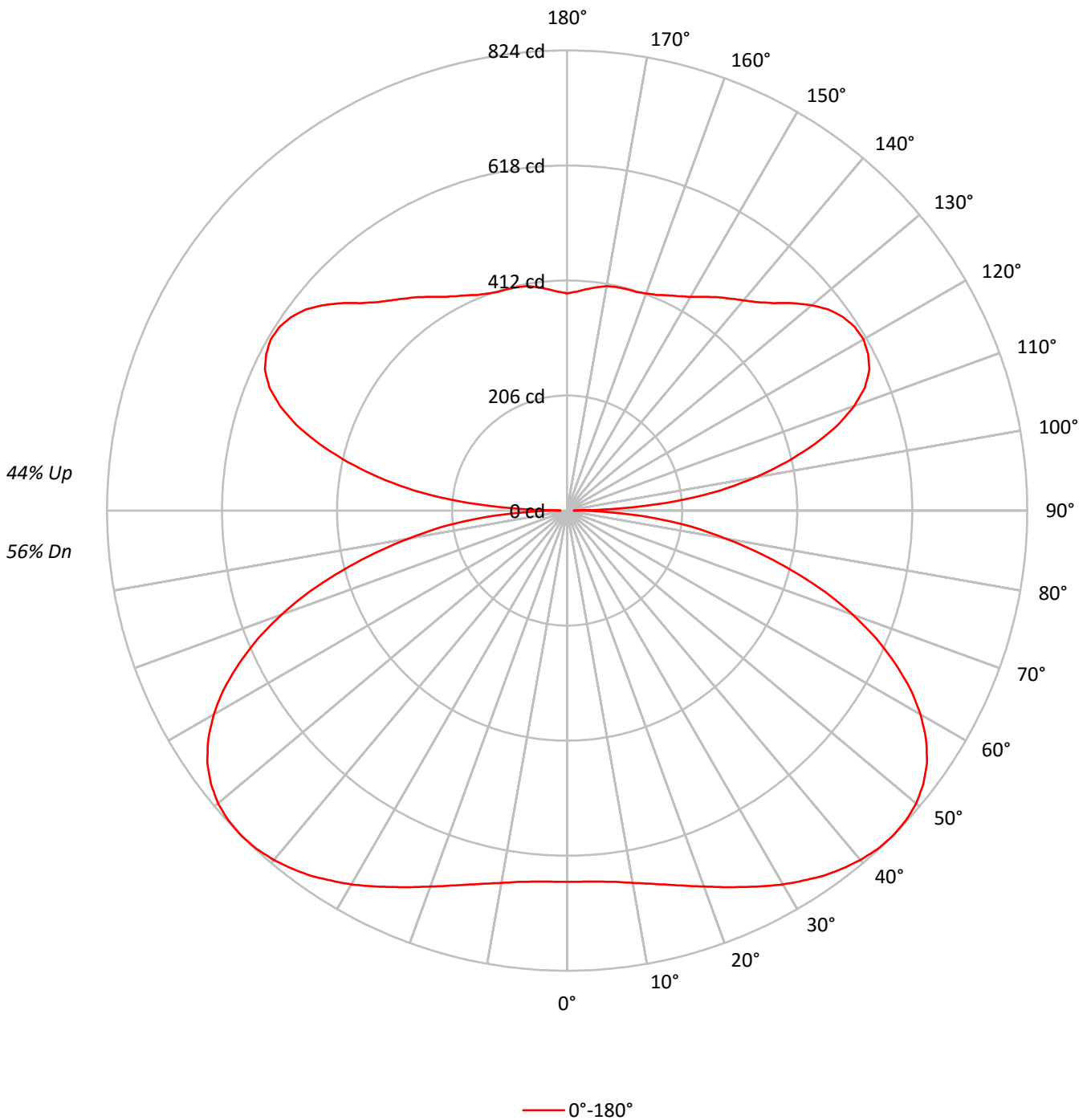
Lumens per Lamp: N/A  
Luminaire Lumens: 6554.5 lumens  
Efficiency: N/A  
Efficacy: 144.7 lumens/watt  
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92  
Luminous Opening: Circular (Dia: 1.88' x H: 0')  
CIE Type: General Diffuse

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°	2592
5°	2609
10°	2679
15°	2798
20°	2971
25°	3199
30°	3479
35°	3801
40°	4157
45°	4544
50°	4948
55°	5347
60°	5699
65°	5982
70°	6204
75°	6296
80°	6468
85°	7076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.0	1.0
10°-20°	197.5	3.0
20°-30°	345.2	5.3
30°-40°	501.2	7.6
40°-50°	636.0	9.7
50°-60°	700.4	10.7
60°-70°	638.7	9.7
70°-80°	441.0	6.7
80°-90°	168.0	2.6
90°-100°	204.1	3.1
100°-110°	478.8	7.3
110°-120°	585.7	8.9
120°-130°	538.2	8.2
130°-140°	409.8	6.3
140°-150°	293.5	4.5
150°-160°	197.5	3.0
160°-170°	116.4	1.8
170°-180°	38.3	0.6
0°-30°	606.6	9.3
0°-40°	1107.8	16.9
0°-60°	2444.3	37.3
0°-90°	3692.0	56.3
90°-120°	1268.7	19.4
90°-150°	2510.2	38.3
90°-180°	2862.0	43.7
0°-180°	6554.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	665	
5°	667	64
15°	693	197
25°	744	345
35°	799	501
45°	824	636
55°	787	700
65°	648	639
75°	418	441
85°	158	155
90°	12	28
95°	198	189
105°	458	479
115°	597	586
125°	604	538
135°	525	410
145°	466	294
155°	425	198
165°	411	116
175°	398	38
180°	389	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	665.0
2.5°	665.0
5°	666.8
7.5°	670.5
10°	676.9
12.5°	684.2
15°	693.4
17.5°	704.3
20°	716.2
22.5°	729.9
25°	743.7
27.5°	758.3
30°	772.9
32.5°	785.7
35°	798.6
37.5°	808.6
40°	816.8
42.5°	822.3
45°	824.2
47.5°	822.3
50°	815.9
52.5°	804.0
55°	786.7
57.5°	762.0
60°	730.9
62.5°	693.4
65°	648.5
67.5°	599.1
70°	544.3
72.5°	483.9
75°	418.0
77.5°	353.1
80°	288.1
82.5°	226.9
85°	158.2
87.5°	82.3
90°	11.9
92.5°	97.9
95°	198.5
97.5°	276.2
100°	343.0
102.5°	402.5
105°	458.3
107.5°	507.7
110°	547.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	577.2
115°	597.3
117.5°	607.4
120°	612.9
122.5°	611.0
125°	603.7
127.5°	590.9
130°	571.7
132.5°	549.7
135°	525.1
137.5°	505.8
140°	491.2
142.5°	478.4
145°	466.5
147.5°	453.7
150°	441.8
152.5°	432.7
155°	425.3
157.5°	418.0
160°	413.5
162.5°	410.7
165°	410.7
167.5°	409.8
170°	408.0
172.5°	403.4
175°	397.9
177.5°	392.4
180°	388.8

(END OF REPORT)