

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: P402549

Luminaire Tested: **ShSe-CIR-3-L40-90-UNV-STD**

Issue Date: 6/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402549  
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-3-L40-90-UNV-STD  
Description: SHAPER SENSE CIRCLE  
LIGHT LEVEL 3  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

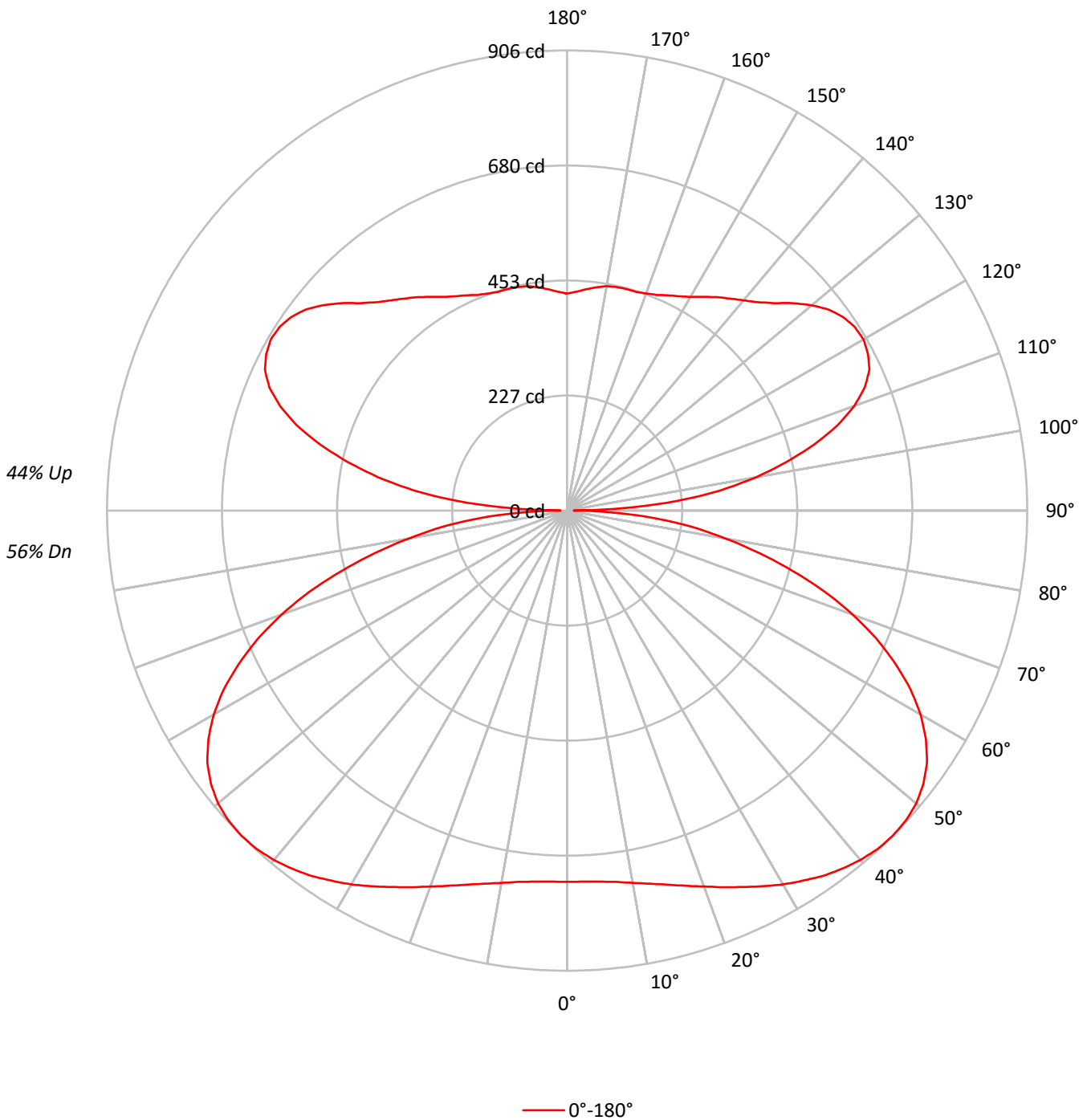
Lumens per Lamp: N/A  
Luminaire Lumens: 7206.4 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92  
Luminous Opening: Circular (Dia: 1.88' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 60.5  
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°	2850
5°	2869
10°	2946
15°	3077
20°	3267
25°	3517
30°	3825
35°	4178
40°	4570
45°	4995
50°	5441
55°	5878
60°	6265
65°	6577
70°	6821
75°	6922
80°	7112
85°	7783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.3	1.0
10°-20°	217.1	3.0
20°-30°	379.5	5.3
30°-40°	551.0	7.6
40°-50°	699.3	9.7
50°-60°	770.1	10.7
60°-70°	702.2	9.7
70°-80°	484.9	6.7
80°-90°	184.8	2.6
90°-100°	224.4	3.1
100°-110°	526.5	7.3
110°-120°	643.9	8.9
120°-130°	591.7	8.2
130°-140°	450.6	6.3
140°-150°	322.7	4.5
150°-160°	217.2	3.0
160°-170°	128.0	1.8
170°-180°	42.1	0.6
0°-30°	667.0	9.3
0°-40°	1218.0	16.9
0°-60°	2687.4	37.3
0°-90°	4059.2	56.3
90°-120°	1394.8	19.4
90°-150°	2759.9	38.3
90°-180°	3147.0	43.7
0°-180°	7206.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	731	
5°	733	70
15°	762	217
25°	818	380
35°	878	551
45°	906	699
55°	865	770
65°	713	702
75°	460	485
85°	174	171
90°	13	31
95°	218	208
105°	504	526
115°	657	644
125°	664	592
135°	577	451
145°	513	323
155°	468	217
165°	452	128
175°	438	42
180°	427	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	731.1
2.5°	731.1
5°	733.2
7.5°	737.2
10°	744.2
12.5°	752.3
15°	762.3
17.5°	774.4
20°	787.5
22.5°	802.6
25°	817.6
27.5°	833.7
30°	849.8
32.5°	863.9
35°	878.0
37.5°	889.0
40°	898.1
42.5°	904.1
45°	906.1
47.5°	904.1
50°	897.1
52.5°	884.0
55°	864.9
57.5°	837.7
60°	803.6
62.5°	762.3
65°	713.0
67.5°	658.7
70°	598.4
72.5°	532.0
75°	459.6
77.5°	388.2
80°	316.8
82.5°	249.4
85°	174.0
87.5°	90.5
90°	13.1
92.5°	107.6
95°	218.2
97.5°	303.7
100°	377.1
102.5°	442.5
105°	503.9
107.5°	558.2
110°	601.4



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	634.6
115°	656.7
117.5°	667.8
120°	673.8
122.5°	671.8
125°	663.8
127.5°	649.7
130°	628.6
132.5°	604.4
135°	577.3
137.5°	556.2
140°	540.1
142.5°	526.0
145°	512.9
147.5°	498.8
150°	485.8
152.5°	475.7
155°	467.7
157.5°	459.6
160°	454.6
162.5°	451.6
165°	451.6
167.5°	450.6
170°	448.5
172.5°	443.5
175°	437.5
177.5°	431.4
180°	427.4

(END OF REPORT)