

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: P402533

Luminaire Tested: **ShSe-CIR-1-L30-80-UNV-STD**

Issue Date: 6/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402533  
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-L30-80-UNV-STD  
Description: SHAPER SENSE CIRCLE  
LIGHT LEVEL 1  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

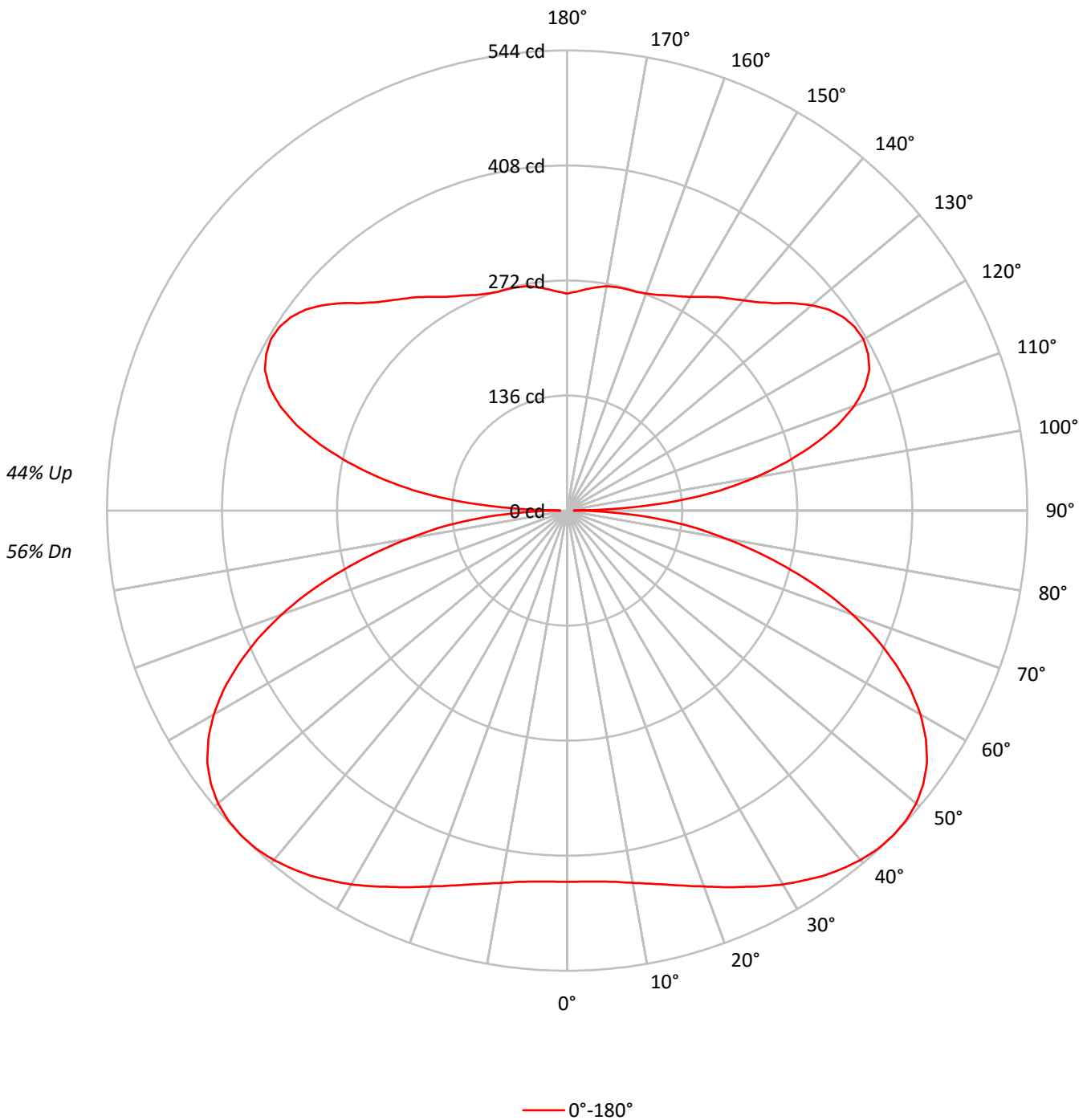
Lumens per Lamp: N/A  
Luminaire Lumens: 4327.0 lumens  
Efficiency: N/A  
Efficacy: 151.8 lumens/watt  
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92  
Luminous Opening: Circular (Dia: 1.88' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 28.5  
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°	1711
5°	1723
10°	1769
15°	1847
20°	1961
25°	2112
30°	2297
35°	2509
40°	2744
45°	3000
50°	3267
55°	3529
60°	3762
65°	3949
70°	4095
75°	4157
80°	4270
85°	4674



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	1.0
10°-20°	130.4	3.0
20°-30°	227.9	5.3
30°-40°	330.9	7.6
40°-50°	419.9	9.7
50°-60°	462.4	10.7
60°-70°	421.6	9.7
70°-80°	291.1	6.7
80°-90°	111.0	2.6
90°-100°	134.8	3.1
100°-110°	316.1	7.3
110°-120°	386.6	8.9
120°-130°	355.3	8.2
130°-140°	270.5	6.3
140°-150°	193.8	4.5
150°-160°	130.4	3.0
160°-170°	76.8	1.8
170°-180°	25.3	0.6
0°-30°	400.5	9.3
0°-40°	731.3	16.9
0°-60°	1613.7	37.3
0°-90°	2437.4	56.3
90°-120°	837.5	19.4
90°-150°	1657.1	38.3
90°-180°	1890.0	43.7
0°-180°	4327.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	439	
5°	440	42
15°	458	130
25°	491	228
35°	527	331
45°	544	420
55°	519	462
65°	428	422
75°	276	291
85°	104	102
90°	8	18
95°	131	125
105°	302	316
115°	394	387
125°	399	355
135°	347	271
145°	308	194
155°	281	130
165°	271	77
175°	263	25
180°	257	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	439.0
2.5°	439.0
5°	440.2
7.5°	442.6
10°	446.9
12.5°	451.7
15°	457.7
17.5°	465.0
20°	472.8
22.5°	481.9
25°	490.9
27.5°	500.6
30°	510.3
32.5°	518.7
35°	527.2
37.5°	533.8
40°	539.3
42.5°	542.9
45°	544.1
47.5°	542.9
50°	538.7
52.5°	530.8
55°	519.3
57.5°	503.0
60°	482.5
62.5°	457.7
65°	428.1
67.5°	395.5
70°	359.3
72.5°	319.4
75°	276.0
77.5°	233.1
80°	190.2
82.5°	149.8
85°	104.5
87.5°	54.3
90°	7.9
92.5°	64.6
95°	131.0
97.5°	182.4
100°	226.5
102.5°	265.7
105°	302.5
107.5°	335.1
110°	361.1



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	381.0
115°	394.3
117.5°	401.0
120°	404.6
122.5°	403.4
125°	398.6
127.5°	390.1
130°	377.4
132.5°	362.9
135°	346.6
137.5°	333.9
140°	324.3
142.5°	315.8
145°	308.0
147.5°	299.5
150°	291.7
152.5°	285.6
155°	280.8
157.5°	276.0
160°	273.0
162.5°	271.1
165°	271.1
167.5°	270.5
170°	269.3
172.5°	266.3
175°	262.7
177.5°	259.1
180°	256.6

(END OF REPORT)