

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: P402540

Luminaire Tested: **ShSe-CIR-2-L30-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402540
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-L30-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

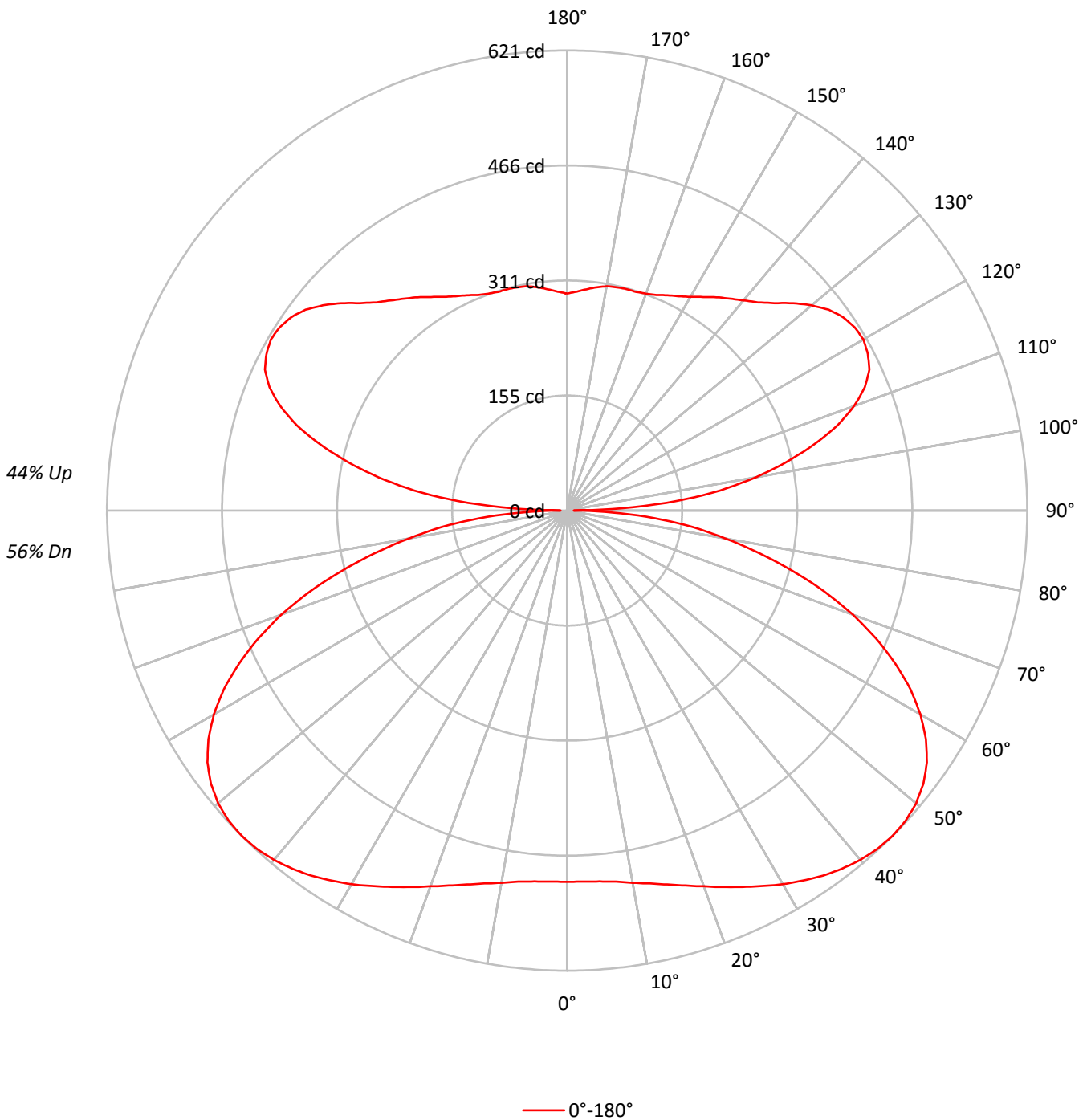
Lumens per Lamp: N/A
Luminaire Lumens: 4938.1 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

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°	1953
5°	1966
10°	2019
15°	2108
20°	2239
25°	2410
30°	2621
35°	2863
40°	3132
45°	3423
50°	3728
55°	4028
60°	4293
65°	4507
70°	4673
75°	4743
80°	4874
85°	5332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	1.0
10°-20°	148.8	3.0
20°-30°	260.1	5.3
30°-40°	377.6	7.6
40°-50°	479.2	9.7
50°-60°	527.7	10.7
60°-70°	481.2	9.7
70°-80°	332.2	6.7
80°-90°	126.6	2.6
90°-100°	153.8	3.1
100°-110°	360.7	7.3
110°-120°	441.3	8.9
120°-130°	405.4	8.2
130°-140°	308.8	6.3
140°-150°	221.1	4.5
150°-160°	148.8	3.0
160°-170°	87.7	1.8
170°-180°	28.9	0.6
0°-30°	457.0	9.3
0°-40°	834.6	16.9
0°-60°	1841.5	37.3
0°-90°	2781.6	56.3
90°-120°	955.8	19.4
90°-150°	1891.1	38.3
90°-180°	2157.0	43.7
0°-180°	4938.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	501	
5°	502	48
15°	522	149
25°	560	260
35°	602	378
45°	621	479
55°	593	528
65°	489	481
75°	315	332
85°	119	117
90°	9	21
95°	150	142
105°	345	361
115°	450	441
125°	455	405
135°	396	309
145°	352	221
155°	320	149
165°	309	88
175°	300	29
180°	293	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	501.0
2.5°	501.0
5°	502.4
7.5°	505.1
10°	510.0
12.5°	515.5
15°	522.4
17.5°	530.6
20°	539.6
22.5°	549.9
25°	560.3
27.5°	571.3
30°	582.3
32.5°	592.0
35°	601.6
37.5°	609.2
40°	615.4
42.5°	619.5
45°	620.9
47.5°	619.5
50°	614.7
52.5°	605.8
55°	592.7
57.5°	574.1
60°	550.6
62.5°	522.4
65°	488.6
67.5°	451.4
70°	410.0
72.5°	364.6
75°	314.9
77.5°	266.0
80°	217.1
82.5°	170.9
85°	119.2
87.5°	62.0
90°	9.0
92.5°	73.7
95°	149.5
97.5°	208.1
100°	258.4
102.5°	303.2
105°	345.3
107.5°	382.5
110°	412.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	434.9
115°	450.0
117.5°	457.6
120°	461.7
122.5°	460.3
125°	454.8
127.5°	445.2
130°	430.7
132.5°	414.2
135°	395.6
137.5°	381.1
140°	370.1
142.5°	360.4
145°	351.5
147.5°	341.8
150°	332.9
152.5°	326.0
155°	320.5
157.5°	314.9
160°	311.5
162.5°	309.4
165°	309.4
167.5°	308.7
170°	307.4
172.5°	303.9
175°	299.8
177.5°	295.6
180°	292.9

(END OF REPORT)