

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: P402548

Luminaire Tested: **ShSe-CIR-3-L40-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402548
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-L40-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

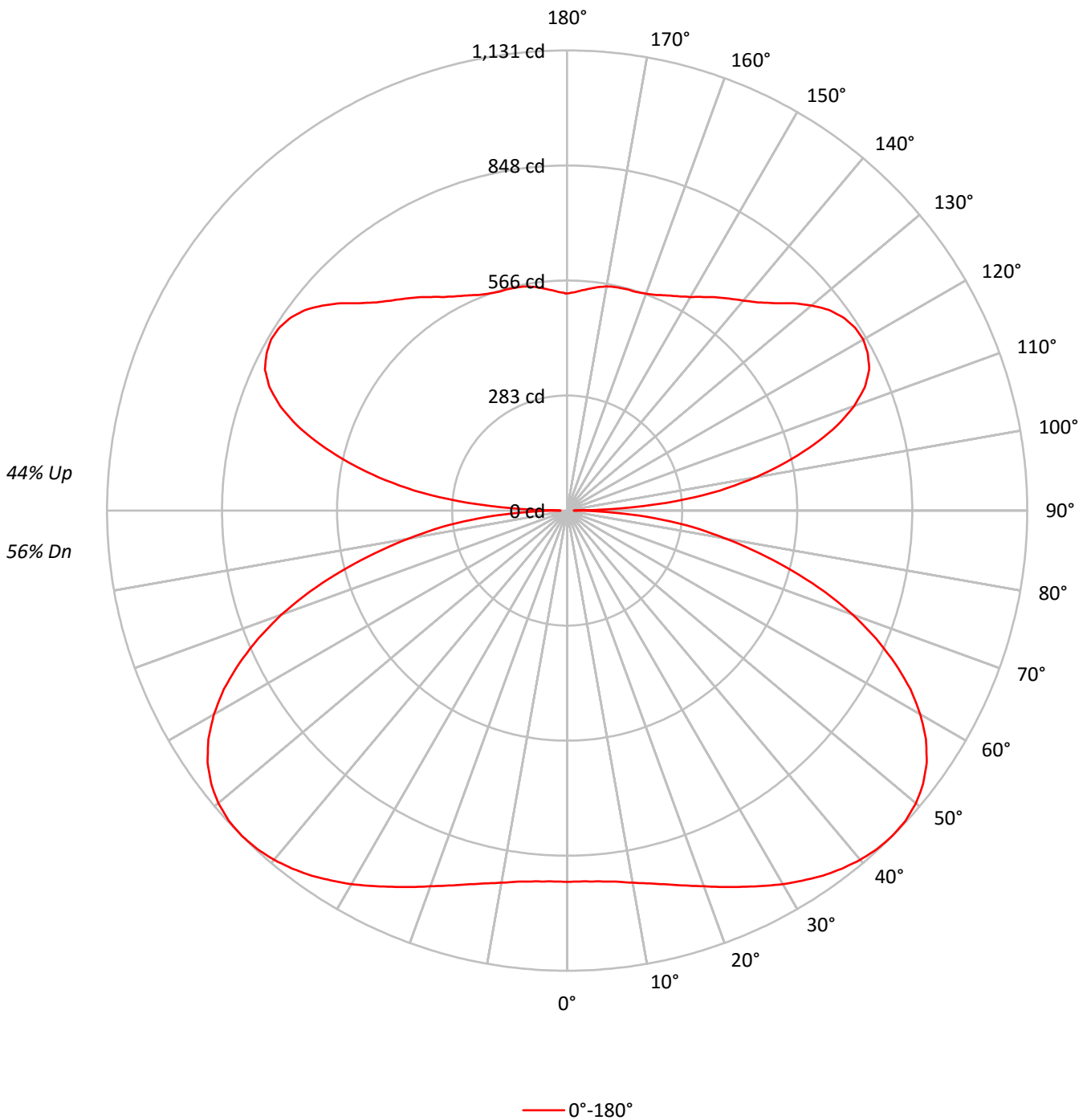
Lumens per Lamp: N/A
Luminaire Lumens: 8991.6 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

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°	3556
5°	3580
10°	3676
15°	3839
20°	4076
25°	4388
30°	4773
35°	5213
40°	5703
45°	6233
50°	6788
55°	7334
60°	7817
65°	8207
70°	8510
75°	8638
80°	8874
85°	9711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	1.0
10°-20°	270.9	3.0
20°-30°	473.5	5.3
30°-40°	687.6	7.6
40°-50°	872.6	9.7
50°-60°	960.8	10.7
60°-70°	876.2	9.7
70°-80°	605.0	6.7
80°-90°	230.5	2.6
90°-100°	280.1	3.1
100°-110°	656.9	7.3
110°-120°	803.5	8.9
120°-130°	738.3	8.2
130°-140°	562.2	6.3
140°-150°	402.7	4.5
150°-160°	271.0	3.0
160°-170°	159.7	1.8
170°-180°	52.5	0.6
0°-30°	832.2	9.3
0°-40°	1519.7	16.9
0°-60°	3353.1	37.3
0°-90°	5064.9	56.3
90°-120°	1740.4	19.4
90°-150°	3443.5	38.3
90°-180°	3927.0	43.7
0°-180°	8991.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	912	
5°	915	88
15°	951	271
25°	1020	474
35°	1096	688
45°	1131	873
55°	1079	961
65°	890	876
75°	574	605
85°	217	213
90°	16	38
95°	272	259
105°	629	657
115°	819	803
125°	828	738
135°	720	562
145°	640	403
155°	584	271
165°	563	160
175°	546	53
180°	533	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	912.3
2.5°	912.3
5°	914.8
7.5°	919.8
10°	928.6
12.5°	938.6
15°	951.2
17.5°	966.2
20°	982.5
22.5°	1001.3
25°	1020.2
27.5°	1040.2
30°	1060.3
32.5°	1077.9
35°	1095.5
37.5°	1109.3
40°	1120.6
42.5°	1128.1
45°	1130.6
47.5°	1128.1
50°	1119.3
52.5°	1103.0
55°	1079.1
57.5°	1045.3
60°	1002.6
62.5°	951.2
65°	889.7
67.5°	821.9
70°	746.6
72.5°	663.8
75°	573.5
77.5°	484.4
80°	395.3
82.5°	311.2
85°	217.1
87.5°	112.9
90°	16.3
92.5°	134.3
95°	272.3
97.5°	379.0
100°	470.6
102.5°	552.1
105°	628.7
107.5°	696.4
110°	750.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	791.8
115°	819.4
117.5°	833.2
120°	840.7
122.5°	838.2
125°	828.2
127.5°	810.6
130°	784.3
132.5°	754.1
135°	720.3
137.5°	693.9
140°	673.8
142.5°	656.3
145°	640.0
147.5°	622.4
150°	606.1
152.5°	593.5
155°	583.5
157.5°	573.5
160°	567.2
162.5°	563.4
165°	563.4
167.5°	562.2
170°	559.6
172.5°	553.4
175°	545.8
177.5°	538.3
180°	533.3

(END OF REPORT)