

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: P402538

Luminaire Tested: **ShSe-CIR-1-L40-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402538
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-L40-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

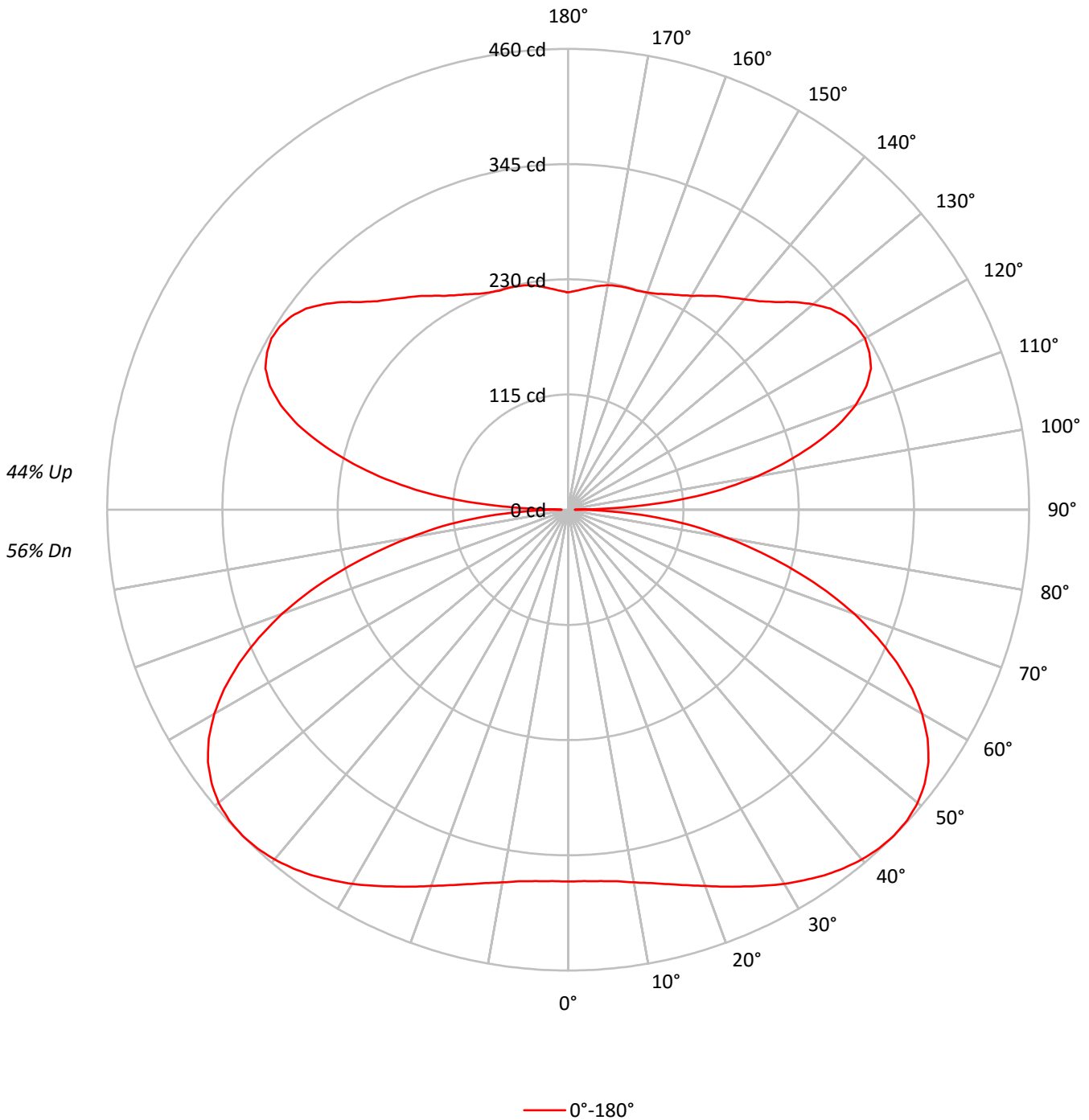
Lumens per Lamp: N/A
Luminaire Lumens: 3657.3 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 27.5
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



TEST NUMBER: P402538
CATALOG NUMBER: ShSe-CIR-1-L40-90-UNV-STD

Luminous Intensity Polar Plot





TEST NUMBER: P402538

CATALOG NUMBER: ShSe-CIR-1-L40-90-UNV-STD

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°	1447
5°	1456
10°	1495
15°	1561
20°	1658
25°	1785
30°	1941
35°	2121
40°	2320
45°	2535
50°	2761
55°	2983
60°	3179
65°	3338
70°	3462
75°	3514
80°	3610
85°	3950



TEST NUMBER: P402538

CATALOG NUMBER: ShSe-CIR-1-L40-90-UNV-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	1.0
10°-20°	110.2	3.0
20°-30°	192.6	5.3
30°-40°	279.7	7.6
40°-50°	354.9	9.7
50°-60°	390.8	10.7
60°-70°	356.4	9.7
70°-80°	246.1	6.7
80°-90°	93.8	2.6
90°-100°	113.9	3.1
100°-110°	267.2	7.3
110°-120°	326.8	8.9
120°-130°	300.3	8.2
130°-140°	228.7	6.3
140°-150°	163.8	4.5
150°-160°	110.2	3.0
160°-170°	65.0	1.8
170°-180°	21.4	0.6
0°-30°	338.5	9.3
0°-40°	618.2	16.9
0°-60°	1363.9	37.3
0°-90°	2060.1	56.3
90°-120°	707.9	19.4
90°-150°	1400.7	38.3
90°-180°	1597.0	43.7
0°-180°	3657.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	371	
5°	372	36
15°	387	110
25°	415	193
35°	446	280
45°	460	355
55°	439	391
65°	362	356
75°	233	246
85°	88	87
90°	7	16
95°	111	106
105°	256	267
115°	333	327
125°	337	300
135°	293	229
145°	260	164
155°	237	110
165°	229	65
175°	222	21
180°	217	

TEST NUMBER: P402538

CATALOG NUMBER: ShSe-CIR-1-L40-90-UNV-STD

CANDELA DISTRIBUTION (FULL):

0°	
0°	371.1
2.5°	371.1
5°	372.1
7.5°	374.1
10°	377.7
12.5°	381.8
15°	386.9
17.5°	393.0
20°	399.6
22.5°	407.3
25°	415.0
27.5°	423.1
30°	431.3
32.5°	438.4
35°	445.6
37.5°	451.2
40°	455.8
42.5°	458.8
45°	459.9
47.5°	458.8
50°	455.3
52.5°	448.6
55°	438.9
57.5°	425.2
60°	407.8
62.5°	386.9
65°	361.9
67.5°	334.3
70°	303.7
72.5°	270.0
75°	233.3
77.5°	197.0
80°	160.8
82.5°	126.6
85°	88.3
87.5°	45.9
90°	6.6
92.5°	54.6
95°	110.8
97.5°	154.1
100°	191.4
102.5°	224.6
105°	255.7
107.5°	283.3
110°	305.2

TEST NUMBER: P402538

CATALOG NUMBER: ShSe-CIR-1-L40-90-UNV-STD

CANDELA DISTRIBUTION (continued):

	0°
112.5°	322.1
115°	333.3
117.5°	338.9
120°	342.0
122.5°	340.9
125°	336.9
127.5°	329.7
130°	319.0
132.5°	306.8
135°	293.0
137.5°	282.3
140°	274.1
142.5°	266.9
145°	260.3
147.5°	253.2
150°	246.5
152.5°	241.4
155°	237.3
157.5°	233.3
160°	230.7
162.5°	229.2
165°	229.2
167.5°	228.7
170°	227.6
172.5°	225.1
175°	222.0
177.5°	219.0
180°	216.9

(END OF REPORT)