

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: P402535

Luminaire Tested: **ShSe-CIR-1-L35-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402535
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-L35-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

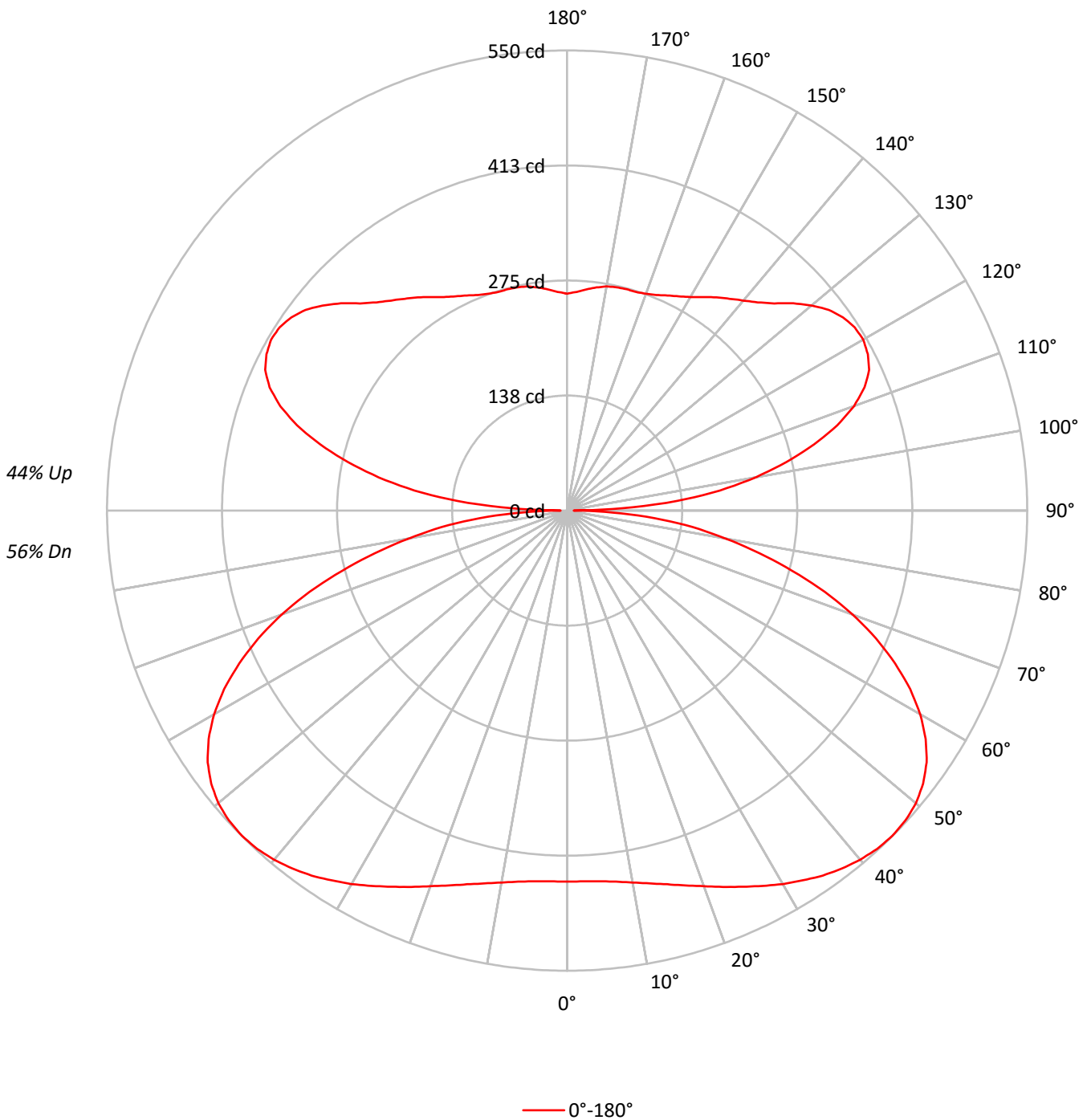
Lumens per Lamp: N/A
Luminaire Lumens: 4371.3 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.2
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°	1729
5°	1740
10°	1787
15°	1866
20°	1982
25°	2133
30°	2320
35°	2535
40°	2772
45°	3031
50°	3300
55°	3565
60°	3800
65°	3989
70°	4137
75°	4199
80°	4315
85°	4719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	1.0
10°-20°	131.7	3.0
20°-30°	230.2	5.3
30°-40°	334.3	7.6
40°-50°	424.2	9.7
50°-60°	467.1	10.7
60°-70°	426.0	9.7
70°-80°	294.1	6.7
80°-90°	112.1	2.6
90°-100°	136.2	3.1
100°-110°	319.3	7.3
110°-120°	390.6	8.9
120°-130°	358.9	8.2
130°-140°	273.3	6.3
140°-150°	195.8	4.5
150°-160°	131.7	3.0
160°-170°	77.6	1.8
170°-180°	25.5	0.6
0°-30°	404.6	9.3
0°-40°	738.8	16.9
0°-60°	1630.2	37.3
0°-90°	2462.3	56.3
90°-120°	846.1	19.4
90°-150°	1674.1	38.3
90°-180°	1909.0	43.7
0°-180°	4371.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	444	
5°	445	43
15°	462	132
25°	496	230
35°	533	334
45°	550	424
55°	525	467
65°	432	426
75°	279	294
85°	106	103
90°	8	19
95°	132	126
105°	306	319
115°	398	391
125°	403	359
135°	350	273
145°	311	196
155°	284	132
165°	274	78
175°	265	26
180°	259	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	443.5
2.5°	443.5
5°	444.7
7.5°	447.2
10°	451.4
12.5°	456.3
15°	462.4
17.5°	469.7
20°	477.7
22.5°	486.8
25°	496.0
27.5°	505.7
30°	515.5
32.5°	524.0
35°	532.6
37.5°	539.3
40°	544.8
42.5°	548.4
45°	549.7
47.5°	548.4
50°	544.2
52.5°	536.2
55°	524.6
57.5°	508.2
60°	487.4
62.5°	462.4
65°	432.5
67.5°	399.6
70°	363.0
72.5°	322.7
75°	278.8
77.5°	235.5
80°	192.2
82.5°	151.3
85°	105.5
87.5°	54.9
90°	7.9
92.5°	65.3
95°	132.4
97.5°	184.2
100°	228.8
102.5°	268.4
105°	305.6
107.5°	338.6
110°	364.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	384.9
115°	398.4
117.5°	405.1
120°	408.7
122.5°	407.5
125°	402.6
127.5°	394.1
130°	381.3
132.5°	366.6
135°	350.2
137.5°	337.4
140°	327.6
142.5°	319.1
145°	311.1
147.5°	302.6
150°	294.7
152.5°	288.6
155°	283.7
157.5°	278.8
160°	275.7
162.5°	273.9
165°	273.9
167.5°	273.3
170°	272.1
172.5°	269.0
175°	265.4
177.5°	261.7
180°	259.3

(END OF REPORT)