

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: P402536

Luminaire Tested: **ShSe-CIR-1-L35-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402536
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-L35-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

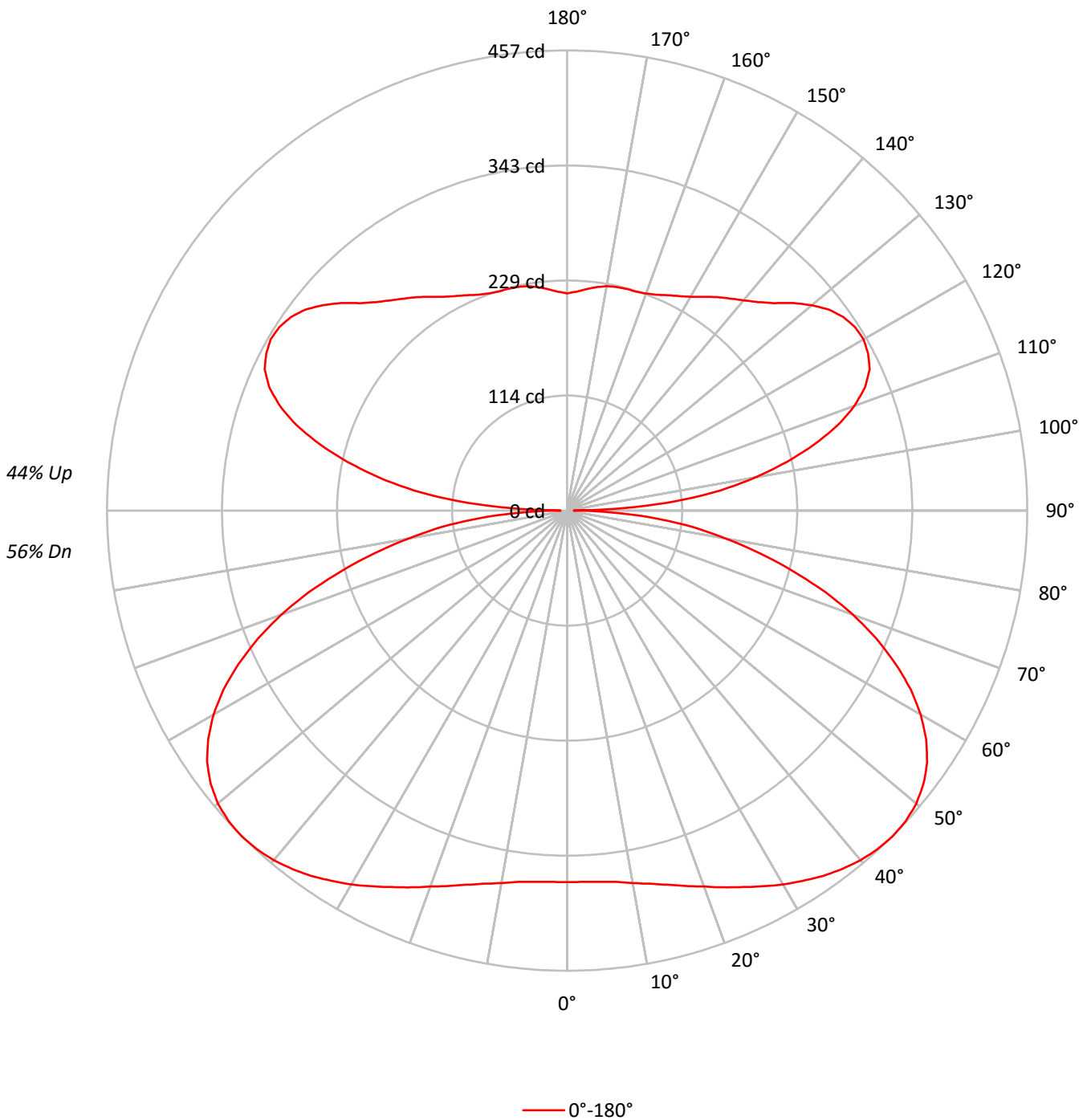
Lumens per Lamp: N/A
Luminaire Lumens: 3636.6 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 27.6
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°	1438
5°	1448
10°	1487
15°	1553
20°	1649
25°	1775
30°	1930
35°	2109
40°	2306
45°	2521
50°	2745
55°	2967
60°	3162
65°	3319
70°	3442
75°	3493
80°	3590
85°	3927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	1.0
10°-20°	109.6	3.0
20°-30°	191.5	5.3
30°-40°	278.1	7.6
40°-50°	352.9	9.7
50°-60°	388.6	10.7
60°-70°	354.4	9.7
70°-80°	244.7	6.7
80°-90°	93.3	2.6
90°-100°	113.3	3.1
100°-110°	265.7	7.3
110°-120°	324.9	8.9
120°-130°	298.6	8.2
130°-140°	227.4	6.3
140°-150°	162.8	4.5
150°-160°	109.6	3.0
160°-170°	64.6	1.8
170°-180°	21.2	0.6
0°-30°	336.6	9.3
0°-40°	614.6	16.9
0°-60°	1356.2	37.3
0°-90°	2048.5	56.3
90°-120°	703.9	19.4
90°-150°	1392.7	38.3
90°-180°	1588.0	43.7
0°-180°	3636.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	369	
5°	370	35
15°	385	110
25°	413	192
35°	443	278
45°	457	353
55°	436	389
65°	360	354
75°	232	245
85°	88	86
90°	7	16
95°	110	105
105°	254	266
115°	331	325
125°	335	299
135°	291	227
145°	259	163
155°	236	110
165°	228	65
175°	221	21
180°	216	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	369.0
2.5°	369.0
5°	370.0
7.5°	372.0
10°	375.6
12.5°	379.6
15°	384.7
17.5°	390.8
20°	397.4
22.5°	405.0
25°	412.6
27.5°	420.7
30°	428.8
32.5°	435.9
35°	443.1
37.5°	448.6
40°	453.2
42.5°	456.2
45°	457.3
47.5°	456.2
50°	452.7
52.5°	446.1
55°	436.5
57.5°	422.8
60°	405.5
62.5°	384.7
65°	359.8
67.5°	332.4
70°	302.0
72.5°	268.5
75°	231.9
77.5°	195.9
80°	159.9
82.5°	125.9
85°	87.8
87.5°	45.7
90°	6.6
92.5°	54.3
95°	110.1
97.5°	153.3
100°	190.3
102.5°	223.3
105°	254.3
107.5°	281.7
110°	303.5

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	320.2
115°	331.4
117.5°	337.0
120°	340.0
122.5°	339.0
125°	335.0
127.5°	327.8
130°	317.2
132.5°	305.0
135°	291.3
137.5°	280.7
140°	272.5
142.5°	265.4
145°	258.8
147.5°	251.7
150°	245.1
152.5°	240.1
155°	236.0
157.5°	231.9
160°	229.4
162.5°	227.9
165°	227.9
167.5°	227.4
170°	226.3
172.5°	223.8
175°	220.8
177.5°	217.7
180°	215.7

(END OF REPORT)