

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: G3-2004-737-3

Luminaire Tested: **ShSe-CIR-3-L35-90-UNV-STD**

Issue Date: 6/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: G3-2004-737-3  
Test Lab: INNOVATION CENTER (G3)  
Issue Date: 6/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: ShSe-CIR-3-L35-90-UNV-STD  
Description: SHAPER SENSE CIRCLE  
LIGHT LEVEL 3  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

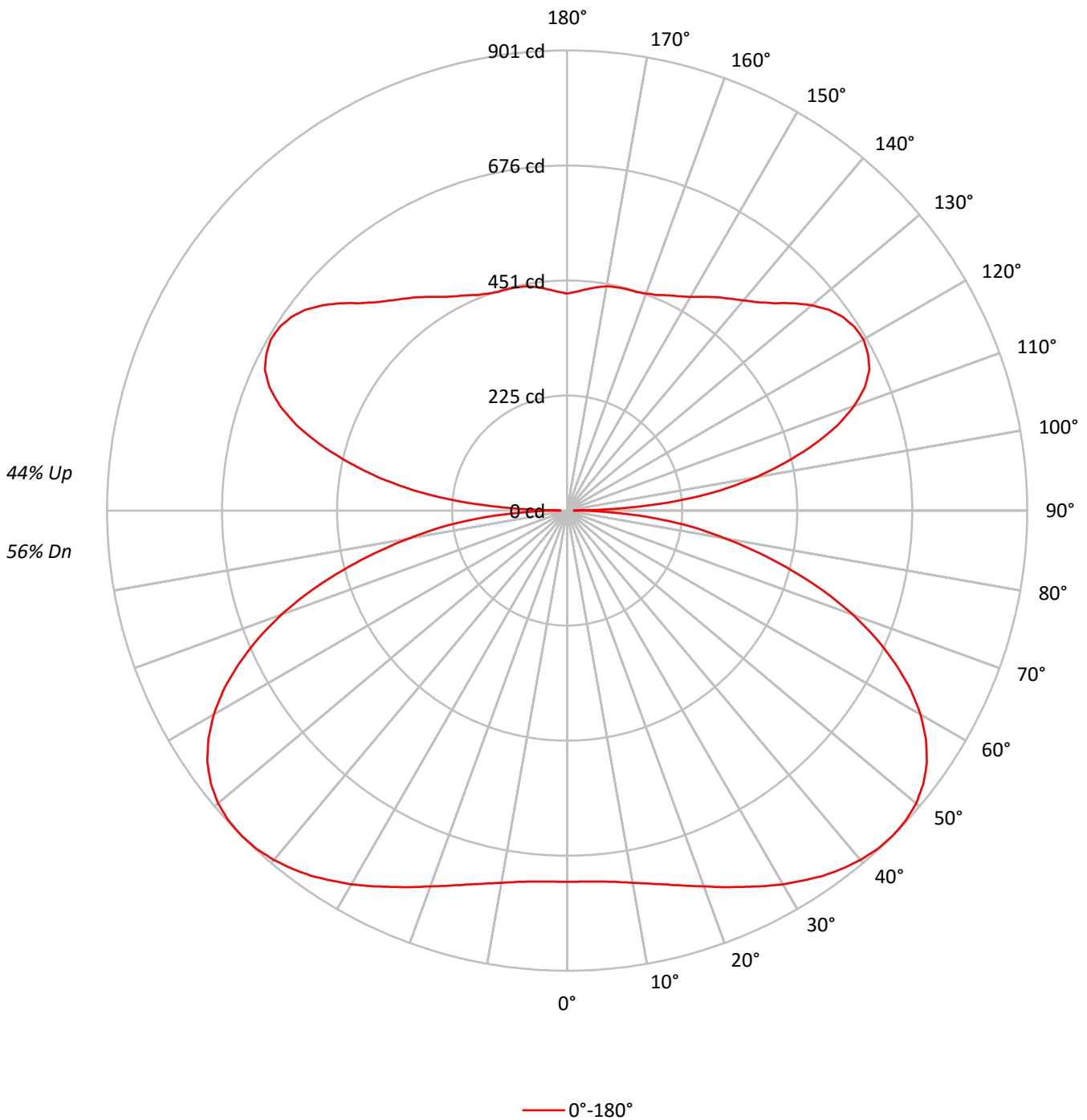
Lumens per Lamp: N/A  
Luminaire Lumens: 7165.6 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92  
Luminous Opening: Circular (Dia: 1.88' x H: 0')  
CIE Type: General Diffuse

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°	2834
5°	2853
10°	2929
15°	3059
20°	3248
25°	3497
30°	3804
35°	4155
40°	4544
45°	4967
50°	5410
55°	5845
60°	6230
65°	6540
70°	6782
75°	6883
80°	7072
85°	7738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.9	1.0
10°-20°	215.9	3.0
20°-30°	377.4	5.3
30°-40°	547.9	7.6
40°-50°	695.4	9.7
50°-60°	765.7	10.7
60°-70°	698.3	9.7
70°-80°	482.1	6.7
80°-90°	183.7	2.6
90°-100°	223.2	3.1
100°-110°	523.5	7.3
110°-120°	640.3	8.9
120°-130°	588.4	8.2
130°-140°	448.0	6.3
140°-150°	320.9	4.5
150°-160°	215.9	3.0
160°-170°	127.3	1.8
170°-180°	41.9	0.6
0°-30°	663.2	9.3
0°-40°	1211.1	16.9
0°-60°	2672.2	37.3
0°-90°	4036.3	56.3
90°-120°	1386.9	19.4
90°-150°	2744.2	38.3
90°-180°	3129.0	43.7
0°-180°	7165.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	727	
5°	729	70
15°	758	216
25°	813	377
35°	873	548
45°	901	695
55°	860	766
65°	709	698
75°	457	482
85°	173	170
90°	13	31
95°	217	207
105°	501	523
115°	653	640
125°	660	588
135°	574	448
145°	510	321
155°	465	216
165°	449	127
175°	435	42
180°	425	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	727
2.5°	727
5°	729
7.5°	733
10°	740
12.5°	748
15°	758
17.5°	770
20°	783
22.5°	798
25°	813
27.5°	829
30°	845
32.5°	859
35°	873
37.5°	884
40°	893
42.5°	899
45°	901
47.5°	899
50°	892
52.5°	879
55°	860
57.5°	833
60°	799
62.5°	758
65°	709
67.5°	655
70°	595
72.5°	529
75°	457
77.5°	386
80°	315
82.5°	248
85°	173
87.5°	90
90°	13
92.5°	107
95°	217
97.5°	302
100°	375
102.5°	440
105°	501
107.5°	555
110°	598



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	631
115°	653
117.5°	664
120°	670
122.5°	668
125°	660
127.5°	646
130°	625
132.5°	601
135°	574
137.5°	553
140°	537
142.5°	523
145°	510
147.5°	496
150°	483
152.5°	473
155°	465
157.5°	457
160°	452
162.5°	449
165°	449
167.5°	448
170°	446
172.5°	441
175°	435
177.5°	429
180°	425

(END OF REPORT)