

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: P402546

Luminaire Tested: **ShSe-CIR-3-L30-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402546
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-L30-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

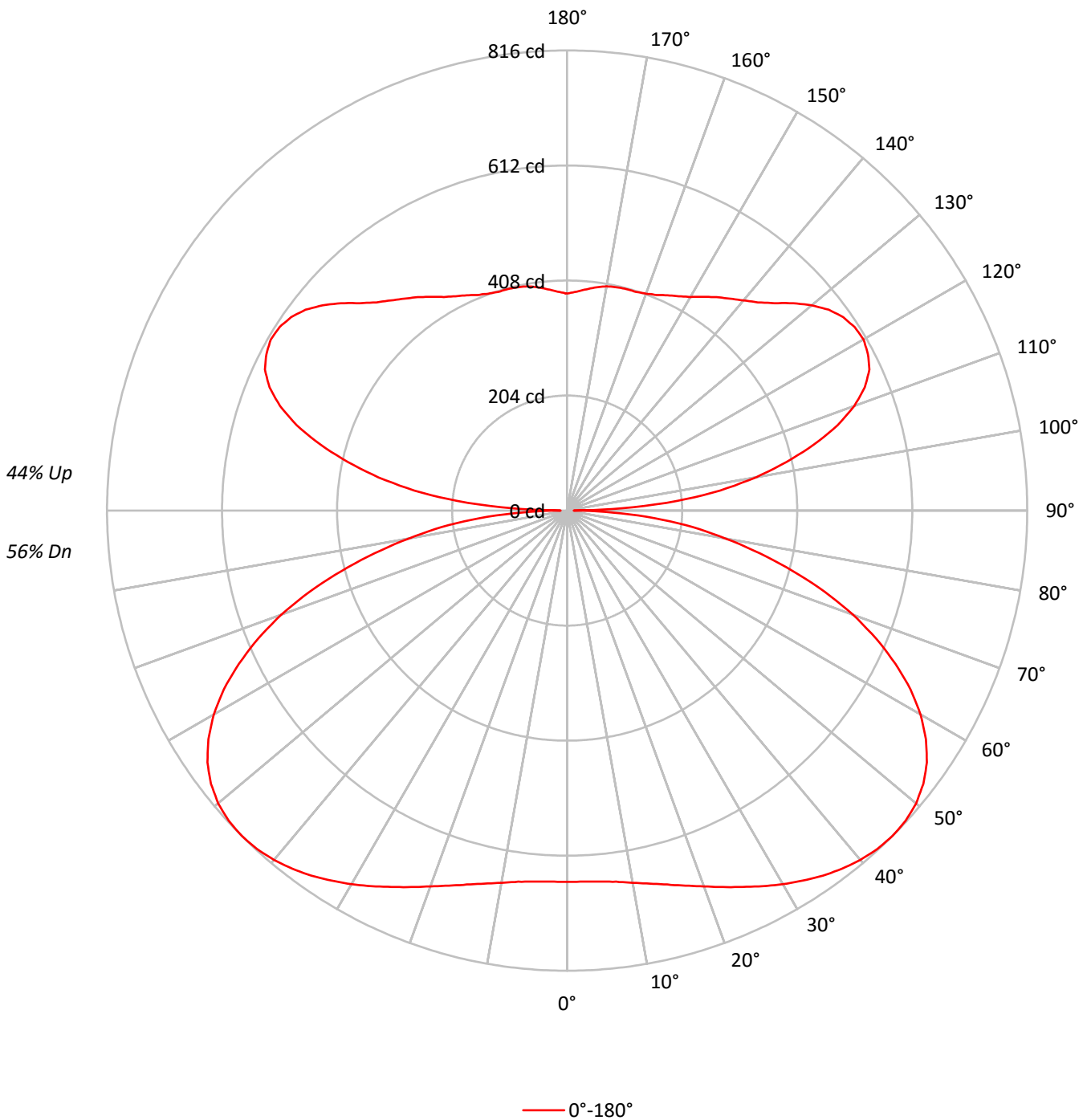
Lumens per Lamp: N/A
Luminaire Lumens: 6489.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

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°	2567
5°	2584
10°	2653
15°	2771
20°	2942
25°	3167
30°	3444
35°	3762
40°	4115
45°	4499
50°	4899
55°	5293
60°	5642
65°	5923
70°	6141
75°	6234
80°	6405
85°	7009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.0
10°-20°	195.5	3.0
20°-30°	341.8	5.3
30°-40°	496.2	7.6
40°-50°	629.7	9.7
50°-60°	693.4	10.7
60°-70°	632.4	9.7
70°-80°	436.6	6.7
80°-90°	166.4	2.6
90°-100°	202.1	3.1
100°-110°	474.1	7.3
110°-120°	579.9	8.9
120°-130°	532.8	8.2
130°-140°	405.7	6.3
140°-150°	290.6	4.5
150°-160°	195.6	3.0
160°-170°	115.3	1.8
170°-180°	37.9	0.6
0°-30°	600.6	9.3
0°-40°	1096.8	16.9
0°-60°	2420.0	37.3
0°-90°	3655.4	56.3
90°-120°	1256.0	19.4
90°-150°	2485.2	38.3
90°-180°	2834.0	43.7
0°-180°	6489.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	658	
5°	660	63
15°	686	196
25°	736	342
35°	791	496
45°	816	630
55°	779	693
65°	642	632
75°	414	437
85°	157	154
90°	12	28
95°	196	187
105°	454	474
115°	591	580
125°	598	533
135°	520	406
145°	462	291
155°	421	196
165°	407	115
175°	394	38
180°	385	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	658.4
2.5°	658.4
5°	660.2
7.5°	663.8
10°	670.2
12.5°	677.4
15°	686.5
17.5°	697.3
20°	709.1
22.5°	722.7
25°	736.3
27.5°	750.8
30°	765.2
32.5°	777.9
35°	790.6
37.5°	800.6
40°	808.7
42.5°	814.1
45°	816.0
47.5°	814.1
50°	807.8
52.5°	796.0
55°	778.8
57.5°	754.4
60°	723.6
62.5°	686.5
65°	642.1
67.5°	593.2
70°	538.8
72.5°	479.1
75°	413.9
77.5°	349.6
80°	285.3
82.5°	224.6
85°	156.7
87.5°	81.5
90°	11.8
92.5°	96.9
95°	196.5
97.5°	273.5
100°	339.6
102.5°	398.5
105°	453.7
107.5°	502.6
110°	541.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	571.4
115°	591.4
117.5°	601.3
120°	606.8
122.5°	605.0
125°	597.7
127.5°	585.0
130°	566.0
132.5°	544.3
135°	519.8
137.5°	500.8
140°	486.3
142.5°	473.6
145°	461.9
147.5°	449.2
150°	437.4
152.5°	428.4
155°	421.1
157.5°	413.9
160°	409.3
162.5°	406.6
165°	406.6
167.5°	405.7
170°	403.9
172.5°	399.4
175°	393.9
177.5°	388.5
180°	384.9

(END OF REPORT)