

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: P402545

Luminaire Tested: **ShSe-CIR-3-L30-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402545
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-L30-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

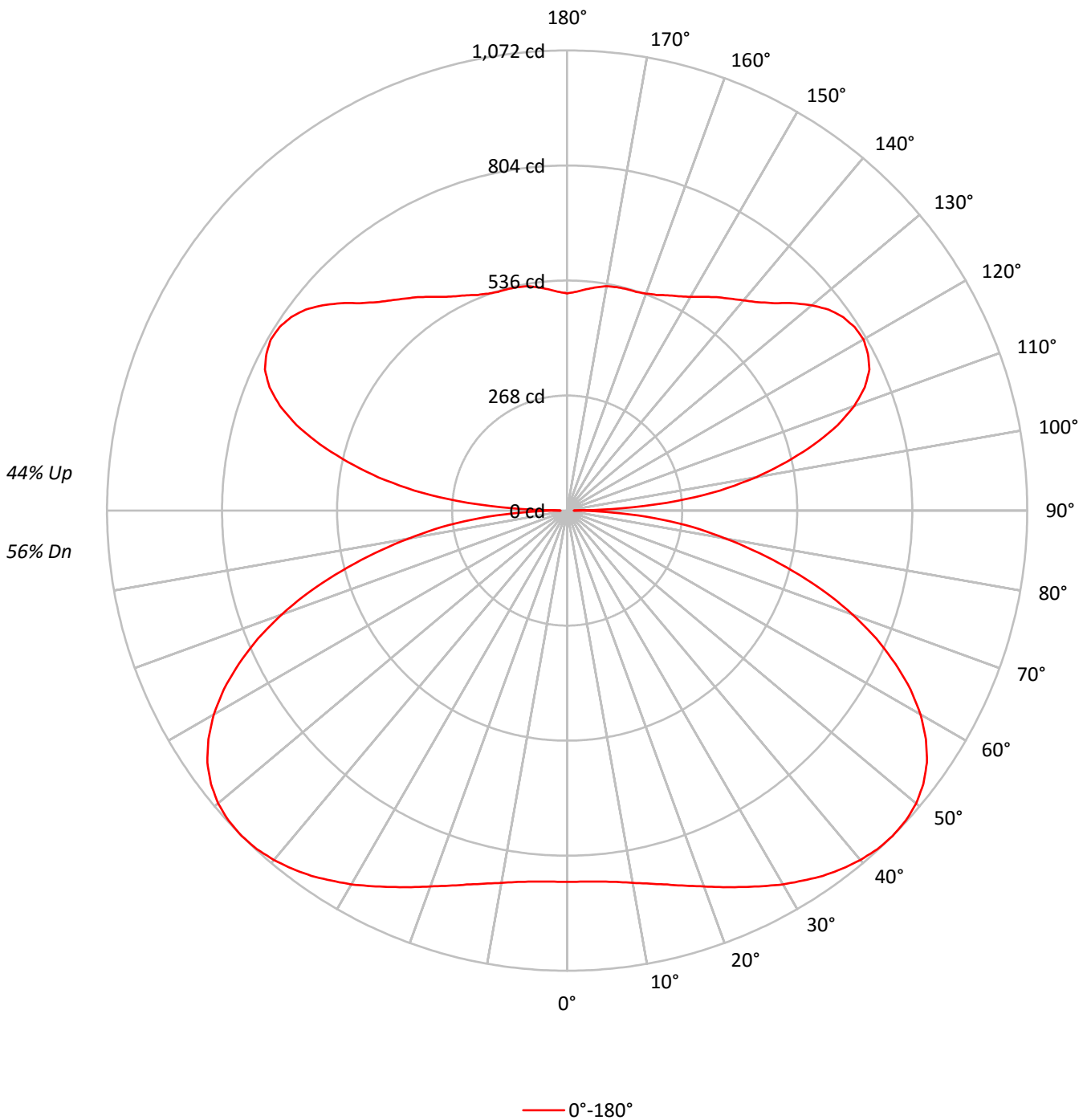
Lumens per Lamp: N/A
Luminaire Lumens: 8526.2 lumens
Efficiency: N/A
Efficacy: 140.9 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

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°	3372
5°	3394
10°	3485
15°	3640
20°	3865
25°	4161
30°	4526
35°	4944
40°	5407
45°	5911
50°	6437
55°	6955
60°	7412
65°	7782
70°	8070
75°	8191
80°	8414
85°	9210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.0
10°-20°	256.9	3.0
20°-30°	449.0	5.3
30°-40°	652.0	7.6
40°-50°	827.4	9.7
50°-60°	911.1	10.7
60°-70°	830.8	9.7
70°-80°	573.7	6.7
80°-90°	218.6	2.6
90°-100°	265.6	3.1
100°-110°	622.8	7.3
110°-120°	761.9	8.9
120°-130°	700.1	8.2
130°-140°	533.1	6.3
140°-150°	381.8	4.5
150°-160°	256.9	3.0
160°-170°	151.4	1.8
170°-180°	49.8	0.6
0°-30°	789.1	9.3
0°-40°	1441.1	16.9
0°-60°	3179.6	37.3
0°-90°	4802.7	56.3
90°-120°	1650.3	19.4
90°-150°	3265.3	38.3
90°-180°	3723.0	43.7
0°-180°	8526.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	865	
5°	867	83
15°	902	257
25°	967	449
35°	1039	652
45°	1072	827
55°	1023	911
65°	844	831
75°	544	574
85°	206	202
90°	16	36
95°	258	246
105°	596	623
115°	777	762
125°	785	700
135°	683	533
145°	607	382
155°	553	257
165°	534	151
175°	518	50
180°	506	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	865.0
2.5°	865.0
5°	867.4
7.5°	872.2
10°	880.5
12.5°	890.0
15°	901.9
17.5°	916.2
20°	931.7
22.5°	949.5
25°	967.4
27.5°	986.4
30°	1005.5
32.5°	1022.1
35°	1038.8
37.5°	1051.9
40°	1062.6
42.5°	1069.7
45°	1072.1
47.5°	1069.7
50°	1061.4
52.5°	1045.9
55°	1023.3
57.5°	991.2
60°	950.7
62.5°	901.9
65°	843.6
67.5°	779.4
70°	708.0
72.5°	629.4
75°	543.8
77.5°	459.3
80°	374.8
82.5°	295.1
85°	205.9
87.5°	107.1
90°	15.5
92.5°	127.3
95°	258.2
97.5°	359.3
100°	446.2
102.5°	523.5
105°	596.1
107.5°	660.4
110°	711.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	750.8
115°	777.0
117.5°	790.1
120°	797.2
122.5°	794.8
125°	785.3
127.5°	768.7
130°	743.7
132.5°	715.1
135°	683.0
137.5°	658.0
140°	639.0
142.5°	622.3
145°	606.8
147.5°	590.2
150°	574.7
152.5°	562.8
155°	553.3
157.5°	543.8
160°	537.8
162.5°	534.3
165°	534.3
167.5°	533.1
170°	530.7
172.5°	524.7
175°	517.6
177.5°	510.5
180°	505.7

(END OF REPORT)