

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: P402543

Luminaire Tested: **ShSe-CIR-2-L40-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402543
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-2-L40-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

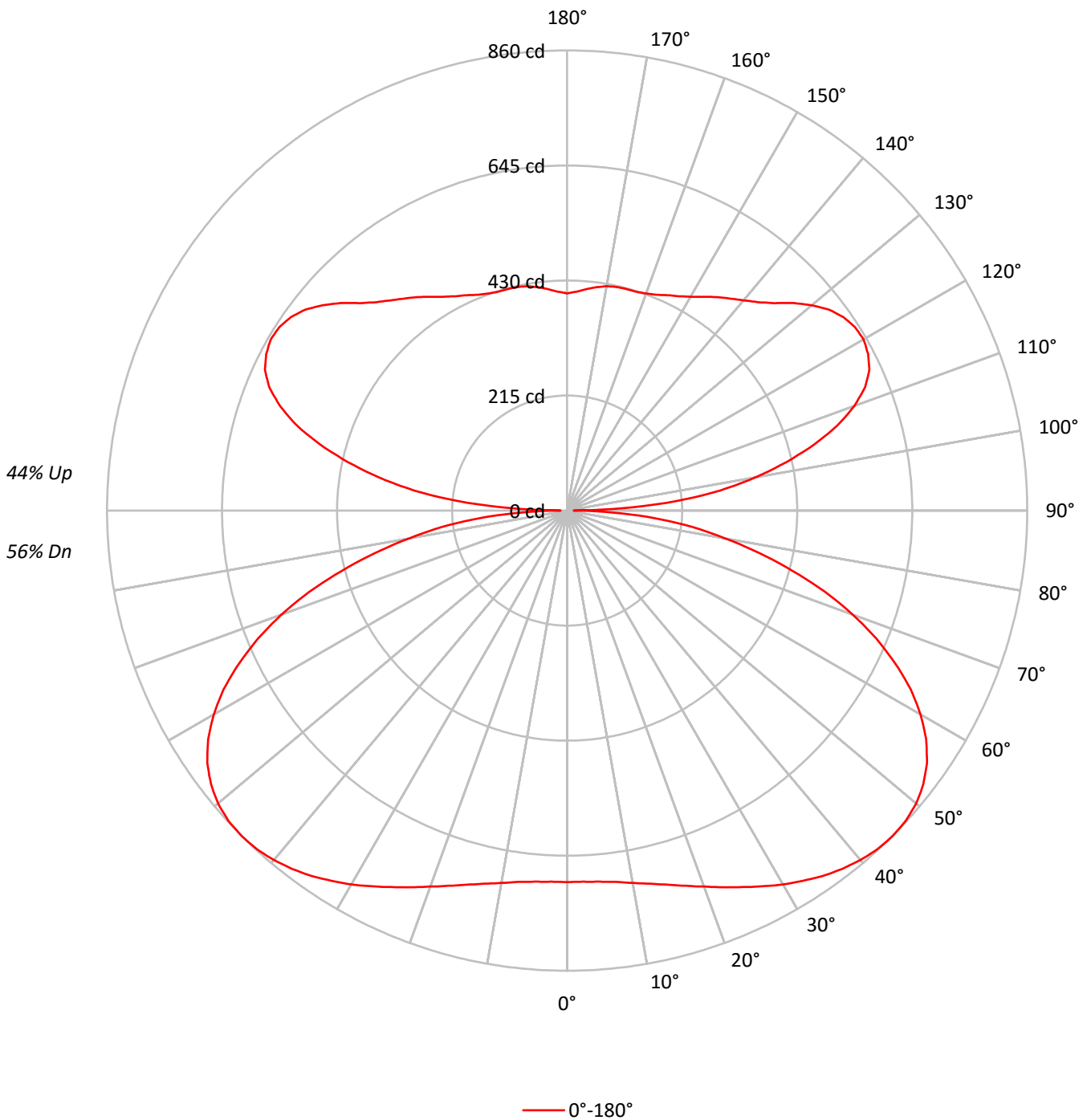
Lumens per Lamp: N/A
Luminaire Lumens: 6842.2 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 45.3
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°	2706
5°	2724
10°	2797
15°	2921
20°	3102
25°	3339
30°	3632
35°	3967
40°	4339
45°	4743
50°	5166
55°	5581
60°	5948
65°	6245
70°	6476
75°	6573
80°	6753
85°	7389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.0
10°-20°	206.1	3.0
20°-30°	360.4	5.3
30°-40°	523.2	7.6
40°-50°	664.0	9.7
50°-60°	731.2	10.7
60°-70°	666.7	9.7
70°-80°	460.4	6.7
80°-90°	175.4	2.6
90°-100°	213.1	3.1
100°-110°	499.8	7.3
110°-120°	611.4	8.9
120°-130°	561.8	8.2
130°-140°	427.8	6.3
140°-150°	306.4	4.5
150°-160°	206.2	3.0
160°-170°	121.5	1.8
170°-180°	40.0	0.6
0°-30°	633.3	9.3
0°-40°	1156.5	16.9
0°-60°	2551.6	37.3
0°-90°	3854.1	56.3
90°-120°	1324.4	19.4
90°-150°	2620.4	38.3
90°-180°	2988.0	43.7
0°-180°	6842.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	694	
5°	696	67
15°	724	206
25°	776	360
35°	834	523
45°	860	664
55°	821	731
65°	677	667
75°	436	460
85°	165	162
90°	12	29
95°	207	197
105°	478	500
115°	624	611
125°	630	562
135°	548	428
145°	487	306
155°	444	206
165°	429	122
175°	415	40
180°	406	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	694.2
2.5°	694.2
5°	696.1
7.5°	699.9
10°	706.6
12.5°	714.2
15°	723.8
17.5°	735.3
20°	747.7
22.5°	762.0
25°	776.3
27.5°	791.6
30°	806.9
32.5°	820.2
35°	833.6
37.5°	844.1
40°	852.7
42.5°	858.4
45°	860.3
47.5°	858.4
50°	851.8
52.5°	839.3
55°	821.2
57.5°	795.4
60°	762.9
62.5°	723.8
65°	677.0
67.5°	625.4
70°	568.2
72.5°	505.1
75°	436.4
77.5°	368.6
80°	300.8
82.5°	236.8
85°	165.2
87.5°	85.9
90°	12.4
92.5°	102.2
95°	207.2
97.5°	288.4
100°	358.1
102.5°	420.1
105°	478.4
107.5°	530.0
110°	571.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	602.5
115°	623.5
117.5°	634.0
120°	639.8
122.5°	637.9
125°	630.2
127.5°	616.9
130°	596.8
132.5°	573.9
135°	548.1
137.5°	528.0
140°	512.8
142.5°	499.4
145°	487.0
147.5°	473.6
150°	461.2
152.5°	451.7
155°	444.0
157.5°	436.4
160°	431.6
162.5°	428.7
165°	428.7
167.5°	427.8
170°	425.9
172.5°	421.1
175°	415.4
177.5°	409.6
180°	405.8

(END OF REPORT)