

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: P402537

Luminaire Tested: **ShSe-CIR-1-L40-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402537
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-L40-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

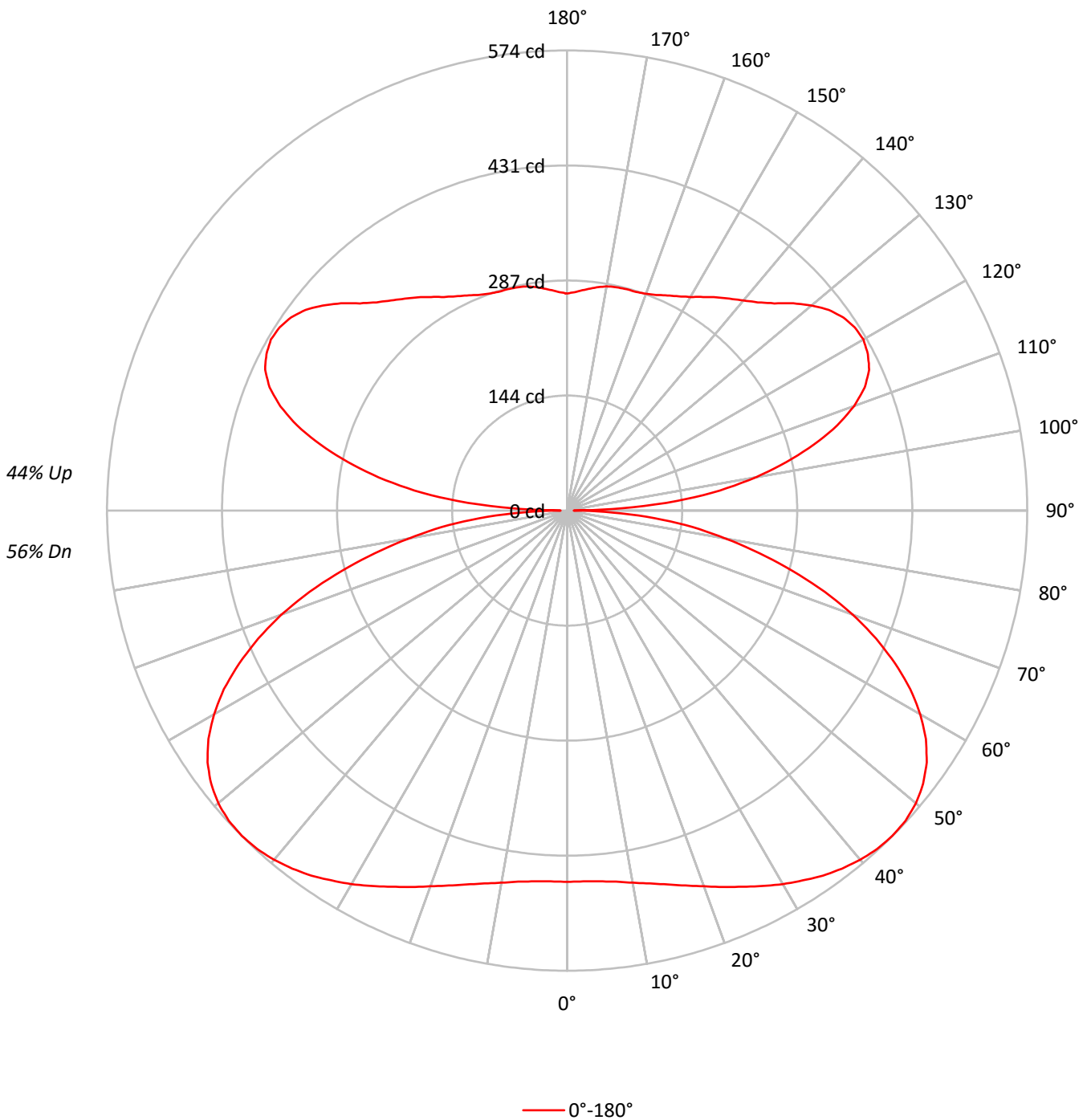
Lumens per Lamp: N/A
Luminaire Lumens: 4563.2 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Spacing Criteria (0/90/45): 1.82 / 1.82 / 1.92
Luminous Opening: Circular (Dia: 1.88' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.3
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°	1805
5°	1817
10°	1866
15°	1948
20°	2068
25°	2227
30°	2422
35°	2646
40°	2894
45°	3163
50°	3445
55°	3722
60°	3967
65°	4165
70°	4319
75°	4383
80°	4503
85°	4929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.0
10°-20°	137.5	3.0
20°-30°	240.3	5.3
30°-40°	348.9	7.6
40°-50°	442.8	9.7
50°-60°	487.7	10.7
60°-70°	444.7	9.7
70°-80°	307.0	6.7
80°-90°	117.0	2.6
90°-100°	142.1	3.1
100°-110°	333.3	7.3
110°-120°	407.7	8.9
120°-130°	374.7	8.2
130°-140°	285.3	6.3
140°-150°	204.4	4.5
150°-160°	137.5	3.0
160°-170°	81.0	1.8
170°-180°	26.7	0.6
0°-30°	422.3	9.3
0°-40°	771.3	16.9
0°-60°	1701.7	37.3
0°-90°	2570.4	56.3
90°-120°	883.2	19.4
90°-150°	1747.6	38.3
90°-180°	1993.0	43.7
0°-180°	4563.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	463	
5°	464	45
15°	483	137
25°	518	240
35°	556	349
45°	574	443
55°	548	488
65°	452	445
75°	291	307
85°	110	108
90°	8	19
95°	138	132
105°	319	333
115°	416	408
125°	420	375
135°	366	285
145°	325	204
155°	296	138
165°	286	81
175°	277	27
180°	271	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	463.0
2.5°	463.0
5°	464.2
7.5°	466.8
10°	471.3
12.5°	476.3
15°	482.7
17.5°	490.4
20°	498.6
22.5°	508.2
25°	517.7
27.5°	527.9
30°	538.1
32.5°	547.0
35°	556.0
37.5°	563.0
40°	568.7
42.5°	572.5
45°	573.8
47.5°	572.5
50°	568.1
52.5°	559.8
55°	547.7
57.5°	530.5
60°	508.8
62.5°	482.7
65°	451.5
67.5°	417.1
70°	378.9
72.5°	336.9
75°	291.0
77.5°	245.8
80°	200.6
82.5°	157.9
85°	110.2
87.5°	57.3
90°	8.3
92.5°	68.1
95°	138.2
97.5°	192.3
100°	238.8
102.5°	280.2
105°	319.1
107.5°	353.4
110°	380.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	401.8
115°	415.8
117.5°	422.9
120°	426.7
122.5°	425.4
125°	420.3
127.5°	411.4
130°	398.0
132.5°	382.7
135°	365.5
137.5°	352.2
140°	342.0
142.5°	333.1
145°	324.8
147.5°	315.9
150°	307.6
152.5°	301.2
155°	296.1
157.5°	291.0
160°	287.8
162.5°	285.9
165°	285.9
167.5°	285.3
170°	284.0
172.5°	280.8
175°	277.0
177.5°	273.2
180°	270.7

(END OF REPORT)