

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: P402561

Luminaire Tested: **ShSe-DRUM-2-L40-90-UNV-STD**

Issue Date: 6/5/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-737-4)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 6/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: ShSe-DRUM-2-L40-90-UNV-STD  
Description: SHAPER SENSE CIRCLE  
LIGHT LEVEL 2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

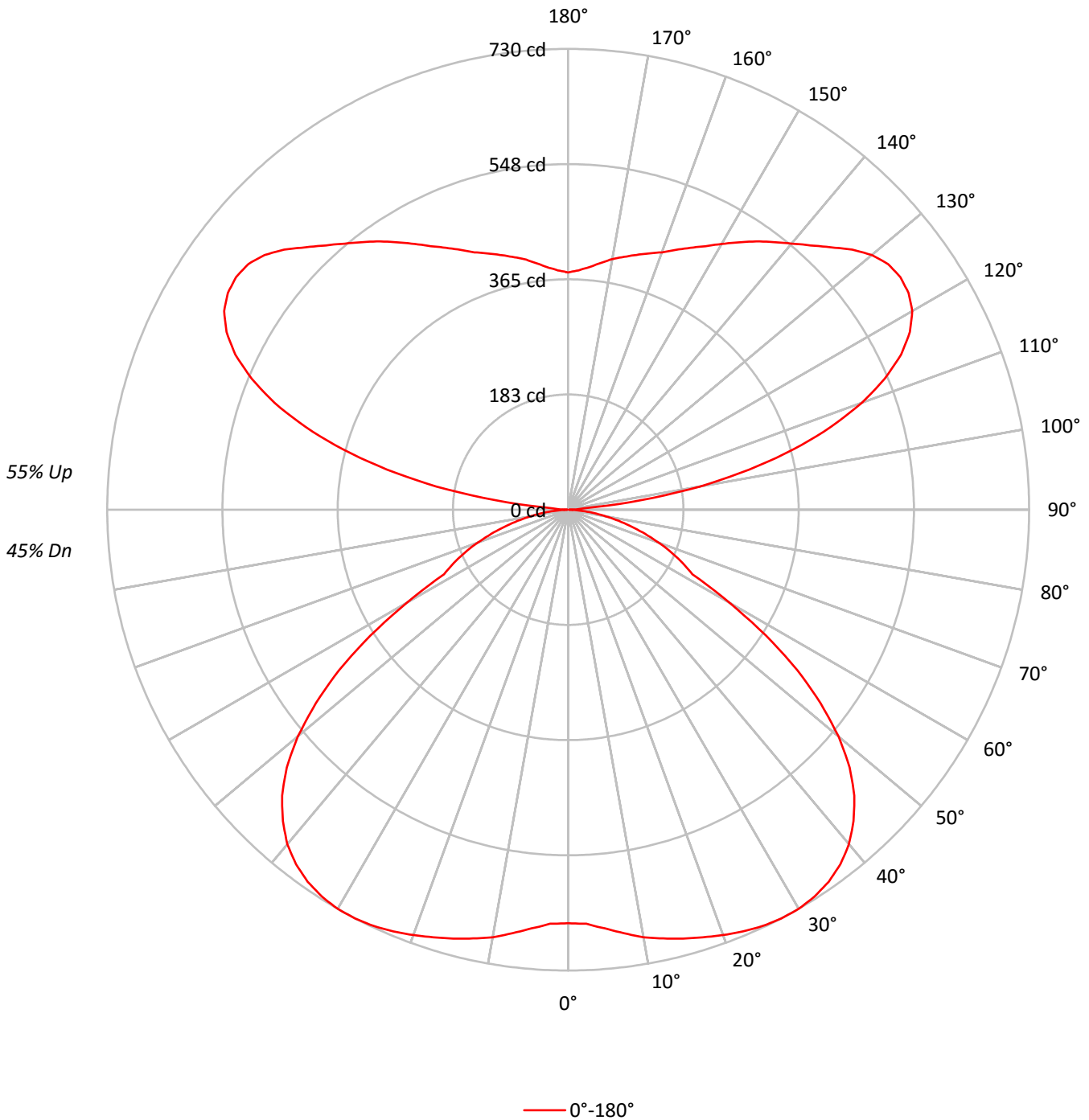
Lumens per Lamp: N/A  
Luminaire Lumens: 5018.5 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62  
Luminous Opening: Circular (Dia: 2.09' x H: 0')  
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44	39
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	41	39	37	33
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	28
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	30	27	24
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24	20
6	62	50	42	36	57	46	39	34	39	34	29	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	16	18	15	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2060
5°	2102
10°	2197
15°	2290
20°	2400
25°	2526
30°	2651
35°	2762
40°	2840
45°	2849
50°	2734
55°	2430
60°	1858
65°	1486
70°	1400
75°	1273
80°	1096
85°	830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.3	1.3
10°-20°	199.7	4.0
20°-30°	336.3	6.7
30°-40°	449.4	9.0
40°-50°	490.3	9.8
50°-60°	389.1	7.8
60°-70°	203.3	4.1
70°-80°	111.0	2.2
80°-90°	27.8	0.6
90°-100°	71.2	1.4
100°-110°	383.3	7.6
110°-120°	569.0	11.3
120°-130°	571.6	11.4
130°-140°	456.7	9.1
140°-150°	326.4	6.5
150°-160°	212.9	4.2
160°-170°	118.9	2.4
170°-180°	37.4	0.7
0°-30°	600.2	12.0
0°-40°	1049.7	20.9
0°-60°	1929.0	38.4
0°-90°	2271.1	45.3
90°-120°	1023.5	20.4
90°-150°	2378.2	47.4
90°-180°	2747.0	54.7
0°-180°	5018.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	655	
5°	666	64
15°	703	200
25°	728	336
35°	719	449
45°	641	490
55°	443	389
65°	200	203
75°	105	111
85°	23	27
90°	2	3
95°	27	69
105°	370	383
115°	582	569
125°	642	572
135°	588	457
145°	519	326
155°	458	213
165°	418	119
175°	386	37
180°	376	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	655.1
2.5°	656.6
5°	665.8
7.5°	676.5
10°	688.0
12.5°	695.7
15°	703.3
17.5°	710.2
20°	717.1
22.5°	723.2
25°	727.8
27.5°	730.1
30°	730.1
32.5°	726.3
35°	719.4
37.5°	707.9
40°	691.8
42.5°	668.9
45°	640.6
47.5°	604.6
50°	558.7
52.5°	503.6
55°	443.1
57.5°	371.2
60°	295.4
62.5°	221.9
65°	199.7
67.5°	176.8
70°	152.3
72.5°	127.8
75°	104.8
77.5°	81.9
80°	60.5
82.5°	41.3
85°	23.0
87.5°	6.9
90°	1.5
92.5°	12.2
95°	26.8
97.5°	116.3
100°	212.0
102.5°	293.9
105°	369.6
107.5°	436.2
110°	495.2



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	542.6
115°	581.6
117.5°	610.0
120°	629.1
122.5°	639.0
125°	642.1
127.5°	639.0
130°	627.6
132.5°	610.0
135°	587.8
137.5°	567.9
140°	550.3
142.5°	534.2
145°	518.9
147.5°	502.0
150°	486.0
152.5°	470.7
155°	457.7
157.5°	445.4
160°	433.9
162.5°	425.5
165°	417.9
167.5°	410.2
170°	403.3
172.5°	394.1
175°	385.7
177.5°	379.6
180°	375.8

(END OF REPORT)