

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: P402554

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

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402554
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-1-L40-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

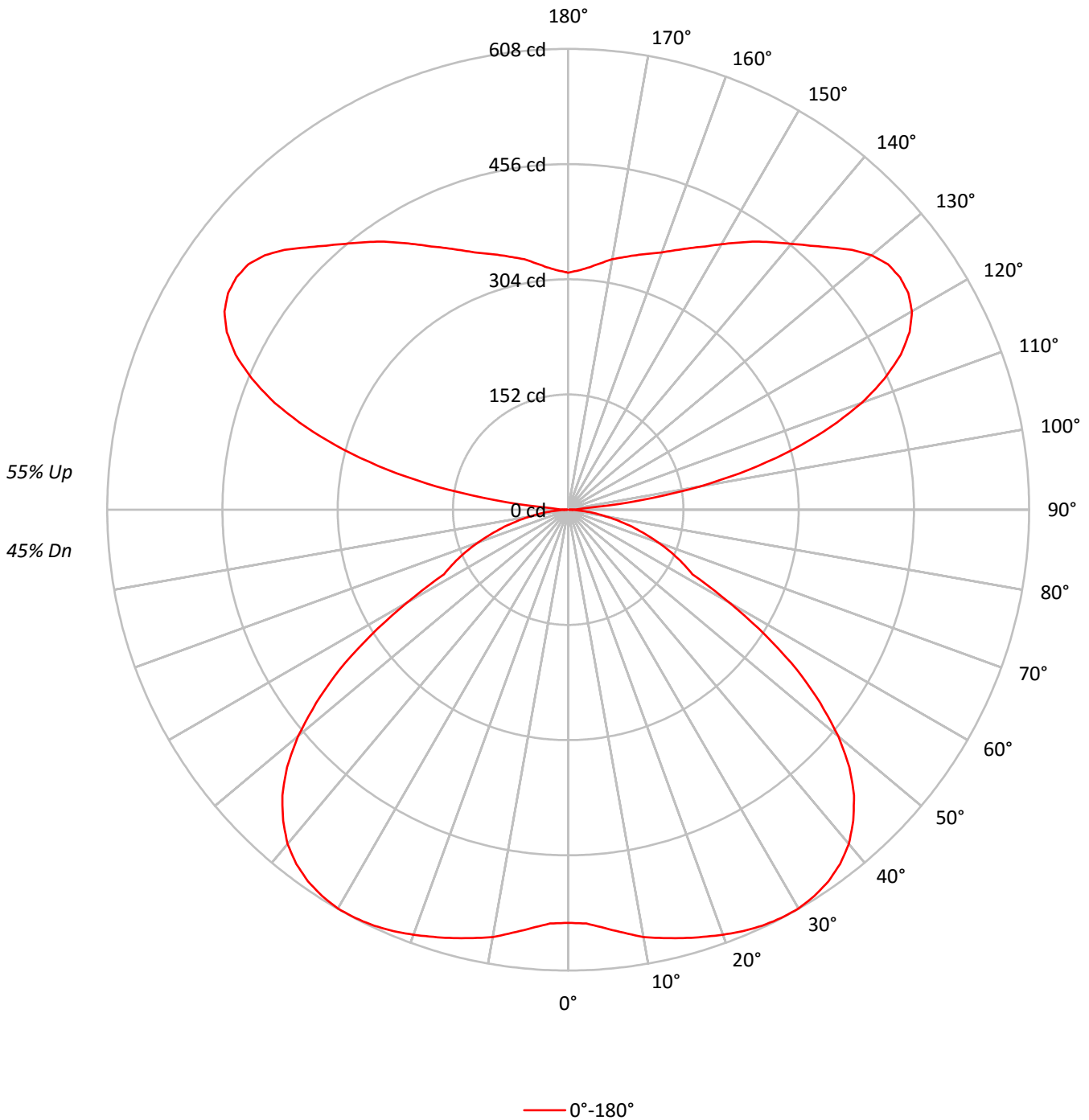
Lumens per Lamp: N/A
Luminaire Lumens: 4175.9 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	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°	1714
5°	1749
10°	1828
15°	1905
20°	1997
25°	2102
30°	2206
35°	2298
40°	2364
45°	2371
50°	2275
55°	2022
60°	1546
65°	1237
70°	1165
75°	1060
80°	911
85°	689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.3
10°-20°	166.2	4.0
20°-30°	279.8	6.7
30°-40°	374.0	9.0
40°-50°	407.9	9.8
50°-60°	323.8	7.8
60°-70°	169.2	4.1
70°-80°	92.3	2.2
80°-90°	23.1	0.6
90°-100°	59.3	1.4
100°-110°	318.9	7.6
110°-120°	473.5	11.3
120°-130°	475.7	11.4
130°-140°	380.0	9.1
140°-150°	271.6	6.5
150°-160°	177.1	4.2
160°-170°	99.0	2.4
170°-180°	31.1	0.7
0°-30°	499.5	12.0
0°-40°	873.4	20.9
0°-60°	1605.2	38.4
0°-90°	1889.7	45.3
90°-120°	851.7	20.4
90°-150°	1979.0	47.4
90°-180°	2286.0	54.7
0°-180°	4175.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	545	
5°	554	53
15°	585	166
25°	606	280
35°	599	374
45°	533	408
55°	369	324
65°	166	169
75°	87	92
85°	19	22
90°	1	3
95°	22	58
105°	308	319
115°	484	473
125°	534	476
135°	489	380
145°	432	272
155°	381	177
165°	348	99
175°	321	31
180°	313	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	545.1
2.5°	546.4
5°	554.0
7.5°	563.0
10°	572.5
12.5°	578.9
15°	585.2
17.5°	591.0
20°	596.7
22.5°	601.8
25°	605.6
27.5°	607.5
30°	607.5
32.5°	604.3
35°	598.6
37.5°	589.1
40°	575.7
42.5°	556.6
45°	533.0
47.5°	503.1
50°	464.9
52.5°	419.0
55°	368.7
57.5°	308.9
60°	245.8
62.5°	184.7
65°	166.2
67.5°	147.1
70°	126.7
72.5°	106.4
75°	87.2
77.5°	68.1
80°	50.3
82.5°	34.4
85°	19.1
87.5°	5.7
90°	1.3
92.5°	10.2
95°	22.3
97.5°	96.8
100°	176.4
102.5°	244.5
105°	307.6
107.5°	363.0
110°	412.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	451.5
115°	484.0
117.5°	507.6
120°	523.5
122.5°	531.8
125°	534.3
127.5°	531.8
130°	522.2
132.5°	507.6
135°	489.1
137.5°	472.5
140°	457.9
142.5°	444.5
145°	431.8
147.5°	417.8
150°	404.4
152.5°	391.6
155°	380.8
157.5°	370.6
160°	361.1
162.5°	354.1
165°	347.7
167.5°	341.3
170°	335.6
172.5°	328.0
175°	321.0
177.5°	315.9
180°	312.7

(END OF REPORT)