

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: P402552

Luminaire Tested: **ShSe-DRUM-1-L35-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402552
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-L35-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

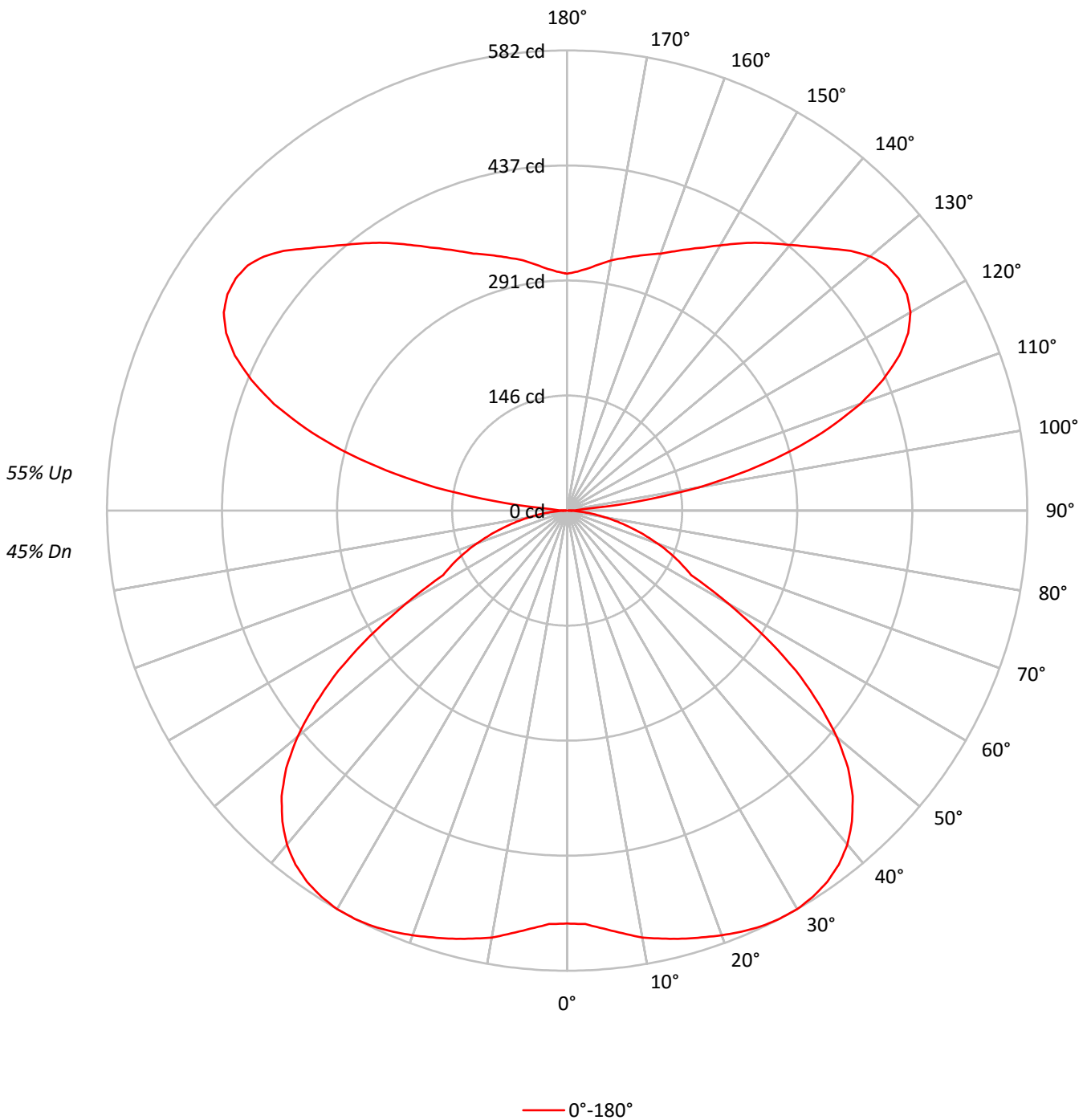
Lumens per Lamp: N/A
Luminaire Lumens: 4000.3 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.2
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



TEST NUMBER: P402552
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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°	1642
5°	1675
10°	1751
15°	1825
20°	1913
25°	2013
30°	2114
35°	2202
40°	2264
45°	2271
50°	2179
55°	1937
60°	1481
65°	1185
70°	1116
75°	1016
80°	873
85°	660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	1.3
10°-20°	159.2	4.0
20°-30°	268.1	6.7
30°-40°	358.2	9.0
40°-50°	390.8	9.8
50°-60°	310.2	7.8
60°-70°	162.0	4.1
70°-80°	88.5	2.2
80°-90°	22.1	0.6
90°-100°	56.8	1.4
100°-110°	305.5	7.6
110°-120°	453.5	11.3
120°-130°	455.6	11.4
130°-140°	364.0	9.1
140°-150°	260.2	6.5
150°-160°	169.7	4.2
160°-170°	94.8	2.4
170°-180°	29.8	0.7
0°-30°	478.5	12.0
0°-40°	836.7	20.9
0°-60°	1537.7	38.4
0°-90°	1810.3	45.3
90°-120°	815.9	20.4
90°-150°	1895.7	47.4
90°-180°	2190.0	54.7
0°-180°	4000.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	522	
5°	531	51
15°	561	159
25°	580	268
35°	573	358
45°	511	391
55°	353	310
65°	159	162
75°	84	88
85°	18	21
90°	1	2
95°	21	55
105°	295	306
115°	464	454
125°	512	456
135°	468	364
145°	414	260
155°	365	170
165°	333	95
175°	308	30
180°	300	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	522.2
2.5°	523.4
5°	530.7
7.5°	539.3
10°	548.4
12.5°	554.5
15°	560.6
17.5°	566.1
20°	571.6
22.5°	576.5
25°	580.2
27.5°	582.0
30°	582.0
32.5°	578.9
35°	573.4
37.5°	564.3
40°	551.5
42.5°	533.2
45°	510.6
47.5°	481.9
50°	445.3
52.5°	401.4
55°	353.2
57.5°	295.9
60°	235.5
62.5°	176.9
65°	159.2
67.5°	140.9
70°	121.4
72.5°	101.9
75°	83.6
77.5°	65.3
80°	48.2
82.5°	32.9
85°	18.3
87.5°	5.5
90°	1.2
92.5°	9.8
95°	21.4
97.5°	92.7
100°	169.0
102.5°	234.3
105°	294.7
107.5°	347.7
110°	394.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	432.5
115°	463.6
117.5°	486.2
120°	501.5
122.5°	509.4
125°	511.8
127.5°	509.4
130°	500.2
132.5°	486.2
135°	468.5
137.5°	452.7
140°	438.6
142.5°	425.8
145°	413.6
147.5°	400.2
150°	387.4
152.5°	375.2
155°	364.8
157.5°	355.0
160°	345.9
162.5°	339.2
165°	333.1
167.5°	327.0
170°	321.5
172.5°	314.2
175°	307.5
177.5°	302.6
180°	299.5

(END OF REPORT)