

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: P402555

Luminaire Tested: **ShSe-DRUM-1-L40-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402555
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-L40-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

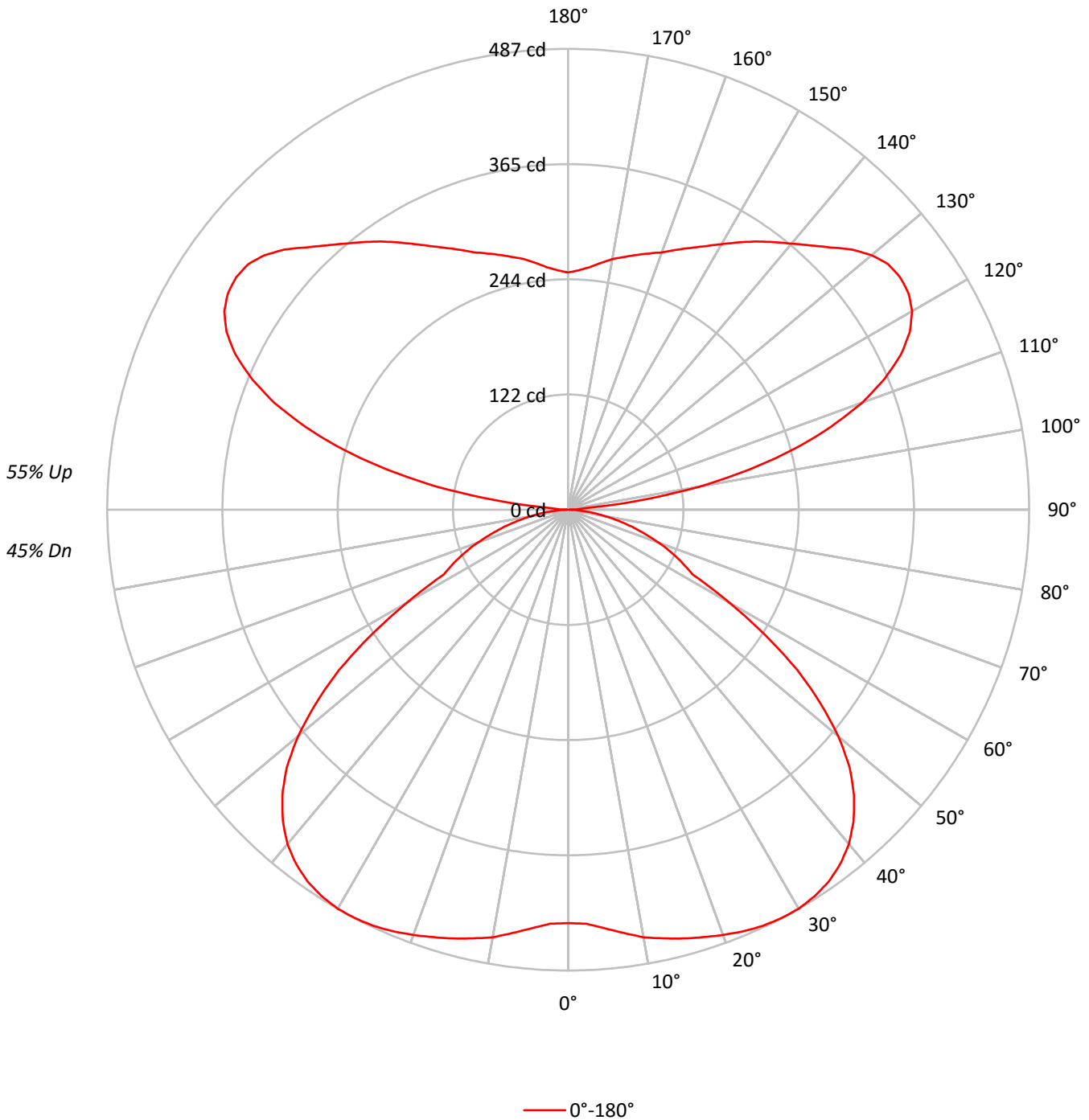
Lumens per Lamp: N/A
Luminaire Lumens: 3346.9 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 27.5
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°	1374
5°	1402
10°	1465
15°	1527
20°	1600
25°	1684
30°	1768
35°	1842
40°	1894
45°	1900
50°	1823
55°	1620
60°	1239
65°	991
70°	934
75°	849
80°	730
85°	552



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.3
10°-20°	133.2	4.0
20°-30°	224.3	6.7
30°-40°	299.7	9.0
40°-50°	327.0	9.8
50°-60°	259.5	7.8
60°-70°	135.6	4.1
70°-80°	74.0	2.2
80°-90°	18.5	0.6
90°-100°	47.5	1.4
100°-110°	255.6	7.6
110°-120°	379.5	11.3
120°-130°	381.2	11.4
130°-140°	304.6	9.1
140°-150°	217.7	6.5
150°-160°	142.0	4.2
160°-170°	79.3	2.4
170°-180°	24.9	0.7
0°-30°	400.3	12.0
0°-40°	700.0	20.9
0°-60°	1286.5	38.4
0°-90°	1514.6	45.3
90°-120°	682.6	20.4
90°-150°	1586.1	47.4
90°-180°	1832.0	54.7
0°-180°	3346.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	437	
5°	444	43
15°	469	133
25°	485	224
35°	480	300
45°	427	327
55°	296	259
65°	133	136
75°	70	74
85°	15	18
90°	1	2
95°	18	46
105°	246	256
115°	388	379
125°	428	381
135°	392	305
145°	346	218
155°	305	142
165°	279	79
175°	257	25
180°	251	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	436.9
2.5°	437.9
5°	444.0
7.5°	451.2
10°	458.8
12.5°	464.0
15°	469.1
17.5°	473.7
20°	478.2
22.5°	482.3
25°	485.4
27.5°	486.9
30°	486.9
32.5°	484.4
35°	479.8
37.5°	472.1
40°	461.4
42.5°	446.1
45°	427.2
47.5°	403.2
50°	372.6
52.5°	335.8
55°	295.5
57.5°	247.5
60°	197.0
62.5°	148.0
65°	133.2
67.5°	117.9
70°	101.6
72.5°	85.2
75°	69.9
77.5°	54.6
80°	40.3
82.5°	27.6
85°	15.3
87.5°	4.6
90°	1.0
92.5°	8.2
95°	17.9
97.5°	77.6
100°	141.4
102.5°	196.0
105°	246.5
107.5°	290.9
110°	330.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	361.9
115°	387.9
117.5°	406.8
120°	419.5
122.5°	426.2
125°	428.2
127.5°	426.2
130°	418.5
132.5°	406.8
135°	392.0
137.5°	378.7
140°	367.0
142.5°	356.3
145°	346.1
147.5°	334.8
150°	324.1
152.5°	313.9
155°	305.2
157.5°	297.1
160°	289.4
162.5°	283.8
165°	278.7
167.5°	273.6
170°	269.0
172.5°	262.9
175°	257.2
177.5°	253.2
180°	250.6

(END OF REPORT)