

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: P402550

Luminaire Tested: **ShSe-DRUM-1-L30-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402550
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-L30-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

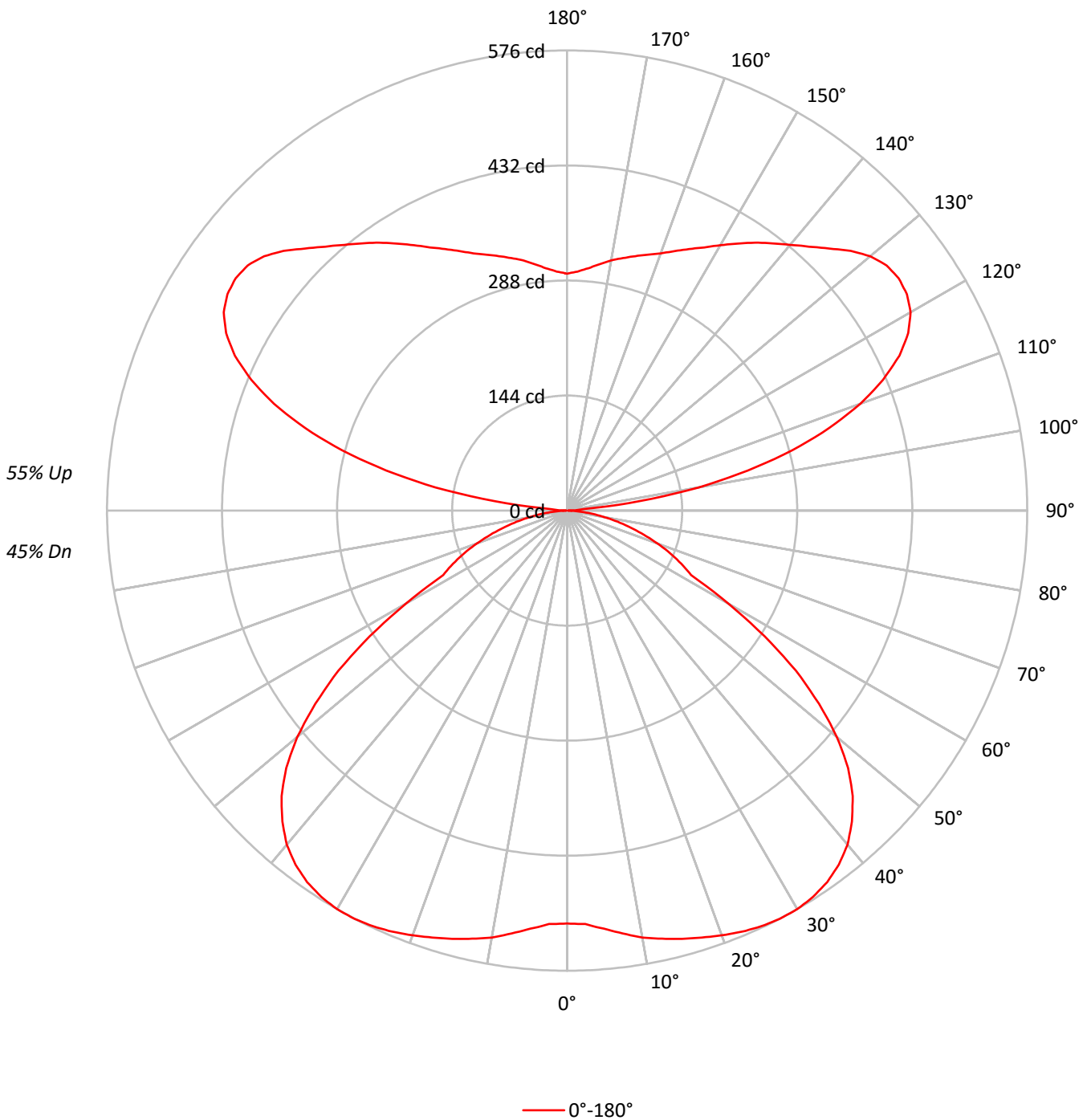
Lumens per Lamp: N/A
Luminaire Lumens: 3959.8 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.6
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°	1626
5°	1659
10°	1734
15°	1807
20°	1894
25°	1993
30°	2092
35°	2179
40°	2241
45°	2248
50°	2157
55°	1917
60°	1466
65°	1173
70°	1105
75°	1005
80°	864
85°	653



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.7	1.3
10°-20°	157.6	4.0
20°-30°	265.4	6.7
30°-40°	354.6	9.0
40°-50°	386.8	9.8
50°-60°	307.0	7.8
60°-70°	160.4	4.1
70°-80°	87.5	2.2
80°-90°	21.9	0.6
90°-100°	56.2	1.4
100°-110°	302.4	7.6
110°-120°	449.0	11.3
120°-130°	451.0	11.4
130°-140°	360.4	9.1
140°-150°	257.5	6.5
150°-160°	168.0	4.2
160°-170°	93.9	2.4
170°-180°	29.5	0.7
0°-30°	473.6	12.0
0°-40°	828.3	20.9
0°-60°	1522.1	38.4
0°-90°	1791.9	45.3
90°-120°	807.6	20.4
90°-150°	1876.5	47.4
90°-180°	2168.0	54.8
0°-180°	3959.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	517	
5°	525	51
15°	555	158
25°	574	265
35°	568	355
45°	505	387
55°	350	307
65°	158	160
75°	83	88
85°	18	21
90°	1	2
95°	21	55
105°	292	302
115°	459	449
125°	507	451
135°	464	360
145°	409	258
155°	361	168
165°	330	94
175°	304	29
180°	296	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	516.9
2.5°	518.1
5°	525.4
7.5°	533.8
10°	542.9
12.5°	548.9
15°	555.0
17.5°	560.4
20°	565.8
22.5°	570.7
25°	574.3
27.5°	576.1
30°	576.1
32.5°	573.1
35°	567.6
37.5°	558.6
40°	545.9
42.5°	527.8
45°	505.4
47.5°	477.1
50°	440.8
52.5°	397.3
55°	349.6
57.5°	292.9
60°	233.1
62.5°	175.1
65°	157.6
67.5°	139.5
70°	120.2
72.5°	100.8
75°	82.7
77.5°	64.6
80°	47.7
82.5°	32.6
85°	18.1
87.5°	5.4
90°	1.2
92.5°	9.7
95°	21.1
97.5°	91.8
100°	167.3
102.5°	231.9
105°	291.7
107.5°	344.2
110°	390.7



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	428.1
115°	458.9
117.5°	481.3
120°	496.4
122.5°	504.2
125°	506.7
127.5°	504.2
130°	495.2
132.5°	481.3
135°	463.8
137.5°	448.1
140°	434.2
142.5°	421.5
145°	409.4
147.5°	396.1
150°	383.5
152.5°	371.4
155°	361.1
157.5°	351.5
160°	342.4
162.5°	335.8
165°	329.7
167.5°	323.7
170°	318.2
172.5°	311.0
175°	304.4
177.5°	299.5
180°	296.5

(END OF REPORT)