

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: P402563

Luminaire Tested: **ShSe-DRUM-3-L30-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402563
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-3-L30-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

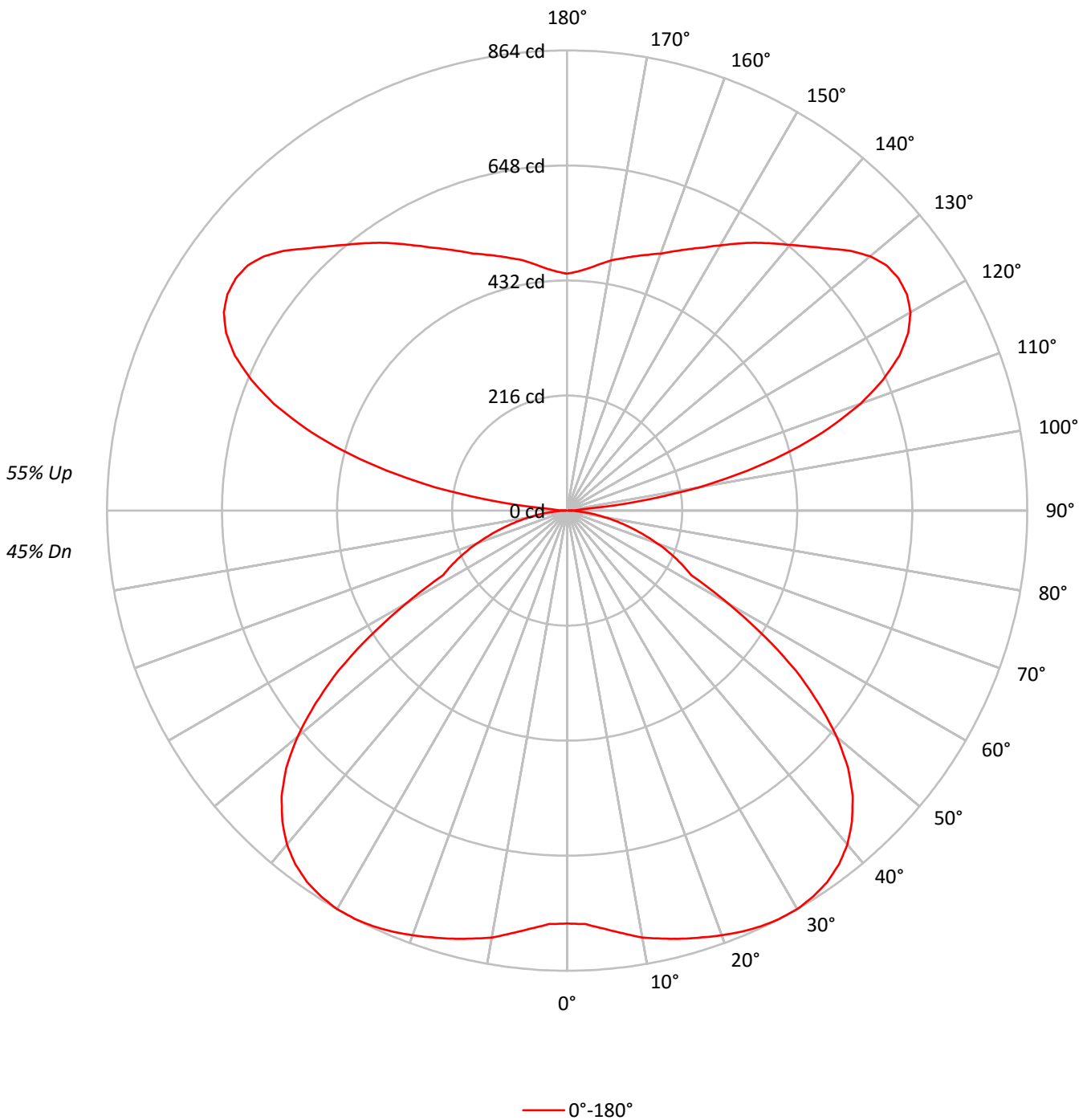
Lumens per Lamp: N/A
Luminaire Lumens: 5938.6 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.5
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°	2438
5°	2487
10°	2600
15°	2710
20°	2840
25°	2989
30°	3138
35°	3268
40°	3361
45°	3371
50°	3235
55°	2875
60°	2199
65°	1759
70°	1657
75°	1508
80°	1295
85°	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	1.3
10°-20°	236.3	4.0
20°-30°	398.0	6.7
30°-40°	531.8	9.0
40°-50°	580.1	9.8
50°-60°	460.5	7.8
60°-70°	240.6	4.1
70°-80°	131.3	2.2
80°-90°	32.9	0.6
90°-100°	84.3	1.4
100°-110°	453.6	7.6
110°-120°	673.3	11.3
120°-130°	676.4	11.4
130°-140°	540.4	9.1
140°-150°	386.2	6.5
150°-160°	251.9	4.2
160°-170°	140.8	2.4
170°-180°	44.2	0.7
0°-30°	710.3	12.0
0°-40°	1242.1	20.9
0°-60°	2282.7	38.4
0°-90°	2687.4	45.3
90°-120°	1211.2	20.4
90°-150°	2814.2	47.4
90°-180°	3251.0	54.7
0°-180°	5938.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	775	
5°	788	76
15°	832	236
25°	861	398
35°	851	532
45°	758	580
55°	524	460
65°	236	241
75°	124	131
85°	27	32
90°	2	4
95°	32	82
105°	437	454
115°	688	673
125°	760	676
135°	696	540
145°	614	386
155°	542	252
165°	494	141
175°	456	44
180°	445	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	775.2
2.5°	777.0
5°	787.9
7.5°	800.6
10°	814.2
12.5°	823.2
15°	832.3
17.5°	840.4
20°	848.6
22.5°	855.8
25°	861.2
27.5°	864.0
30°	864.0
32.5°	859.4
35°	851.3
37.5°	837.7
40°	818.7
42.5°	791.5
45°	758.0
47.5°	715.4
50°	661.1
52.5°	595.9
55°	524.4
57.5°	439.2
60°	349.6
62.5°	262.6
65°	236.4
67.5°	209.2
70°	180.2
72.5°	151.2
75°	124.1
77.5°	96.9
80°	71.5
82.5°	48.9
85°	27.2
87.5°	8.2
90°	1.8
92.5°	14.5
95°	31.7
97.5°	137.7
100°	250.9
102.5°	347.8
105°	437.4
107.5°	516.2
110°	585.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	642.1
115°	688.3
117.5°	721.8
120°	744.4
122.5°	756.2
125°	759.8
127.5°	756.2
130°	742.6
132.5°	721.8
135°	695.5
137.5°	672.0
140°	651.1
142.5°	632.1
145°	614.0
147.5°	594.1
150°	575.1
152.5°	557.0
155°	541.6
157.5°	527.1
160°	513.5
162.5°	503.5
165°	494.5
167.5°	485.4
170°	477.3
172.5°	466.4
175°	456.4
177.5°	449.2
180°	444.7

(END OF REPORT)