

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: P402556

Luminaire Tested: **ShSe-DRUM-2-L30-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402556
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-2-L30-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

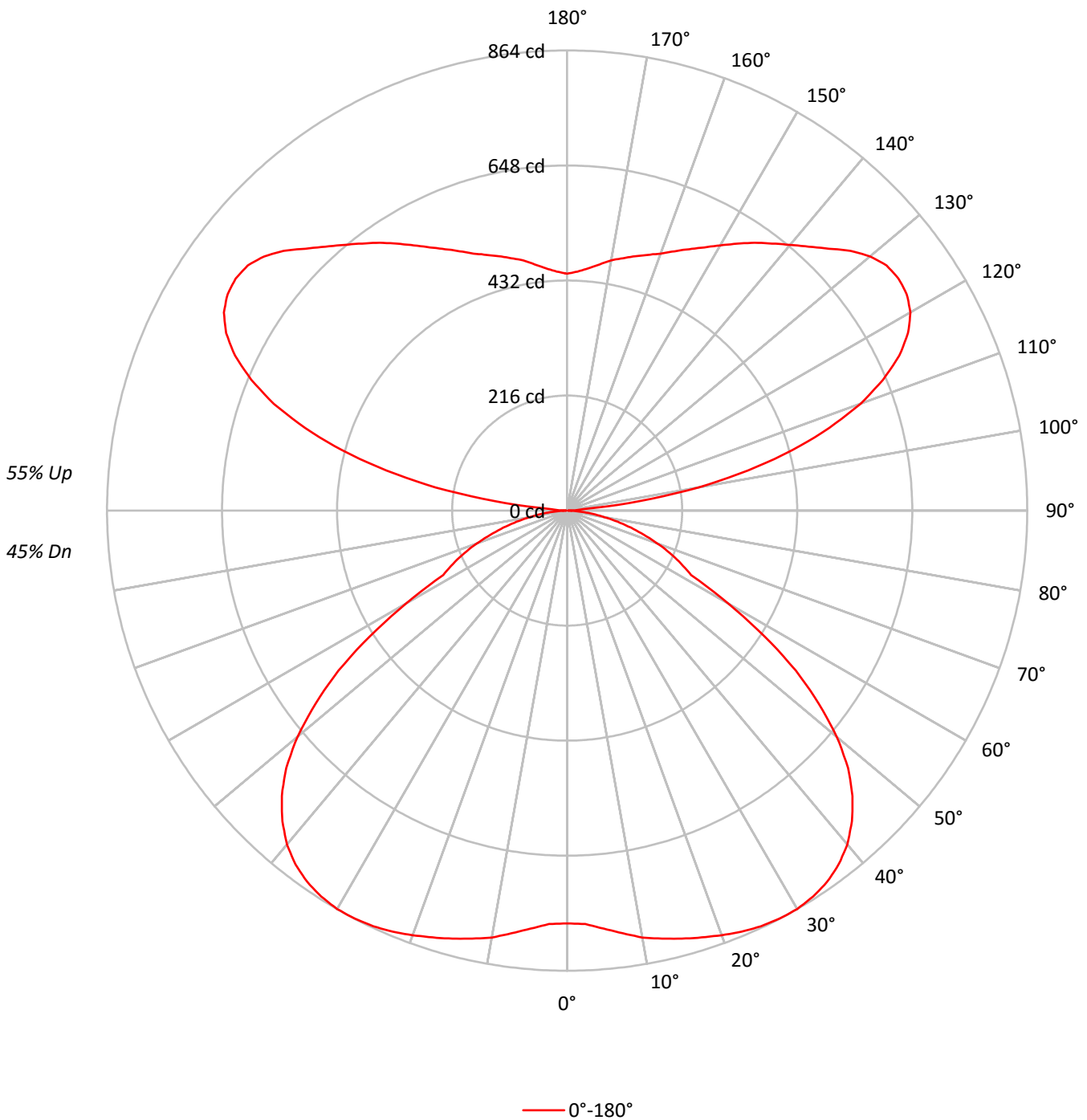
Lumens per Lamp: N/A
Luminaire Lumens: 5937.6 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 45.3
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°	2438
5°	2487
10°	2600
15°	2709
20°	2840
25°	2988
30°	3137
35°	3268
40°	3360
45°	3371
50°	3234
55°	2875
60°	2198
65°	1759
70°	1657
75°	1507
80°	1295
85°	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	1.3
10°-20°	236.2	4.0
20°-30°	397.9	6.7
30°-40°	531.7	9.0
40°-50°	580.0	9.8
50°-60°	460.4	7.8
60°-70°	240.5	4.1
70°-80°	131.3	2.2
80°-90°	32.9	0.6
90°-100°	84.2	1.4
100°-110°	453.5	7.6
110°-120°	673.2	11.3
120°-130°	676.3	11.4
130°-140°	540.4	9.1
140°-150°	386.2	6.5
150°-160°	251.9	4.2
160°-170°	140.7	2.4
170°-180°	44.2	0.7
0°-30°	710.2	12.0
0°-40°	1241.9	20.9
0°-60°	2282.3	38.4
0°-90°	2687.0	45.3
90°-120°	1210.9	20.4
90°-150°	2813.7	47.4
90°-180°	3251.0	54.8
0°-180°	5937.6	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	453
115°	688	673
125°	760	676
135°	695	540
145°	614	386
155°	542	252
165°	494	141
175°	456	44
180°	445	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	775.1
2.5°	776.9
5°	787.8
7.5°	800.4
10°	814.0
12.5°	823.1
15°	832.1
17.5°	840.3
20°	848.4
22.5°	855.7
25°	861.1
27.5°	863.8
30°	863.8
32.5°	859.3
35°	851.1
37.5°	837.6
40°	818.5
42.5°	791.4
45°	757.9
47.5°	715.3
50°	661.0
52.5°	595.8
55°	524.3
57.5°	439.2
60°	349.5
62.5°	262.6
65°	236.3
67.5°	209.2
70°	180.2
72.5°	151.2
75°	124.0
77.5°	96.9
80°	71.5
82.5°	48.9
85°	27.2
87.5°	8.1
90°	1.8
92.5°	14.5
95°	31.7
97.5°	137.6
100°	250.8
102.5°	347.7
105°	437.3
107.5°	516.1
110°	585.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	642.0
115°	688.2
117.5°	721.7
120°	744.3
122.5°	756.1
125°	759.7
127.5°	756.1
130°	742.5
132.5°	721.7
135°	695.4
137.5°	671.9
140°	651.0
142.5°	632.0
145°	613.9
147.5°	594.0
150°	575.0
152.5°	556.9
155°	541.5
157.5°	527.0
160°	513.4
162.5°	503.4
165°	494.4
167.5°	485.3
170°	477.2
172.5°	466.3
175°	456.4
177.5°	449.1
180°	444.6

(END OF REPORT)