

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: P402551

Luminaire Tested: **ShSe-DRUM-1-L30-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402551
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-L30-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

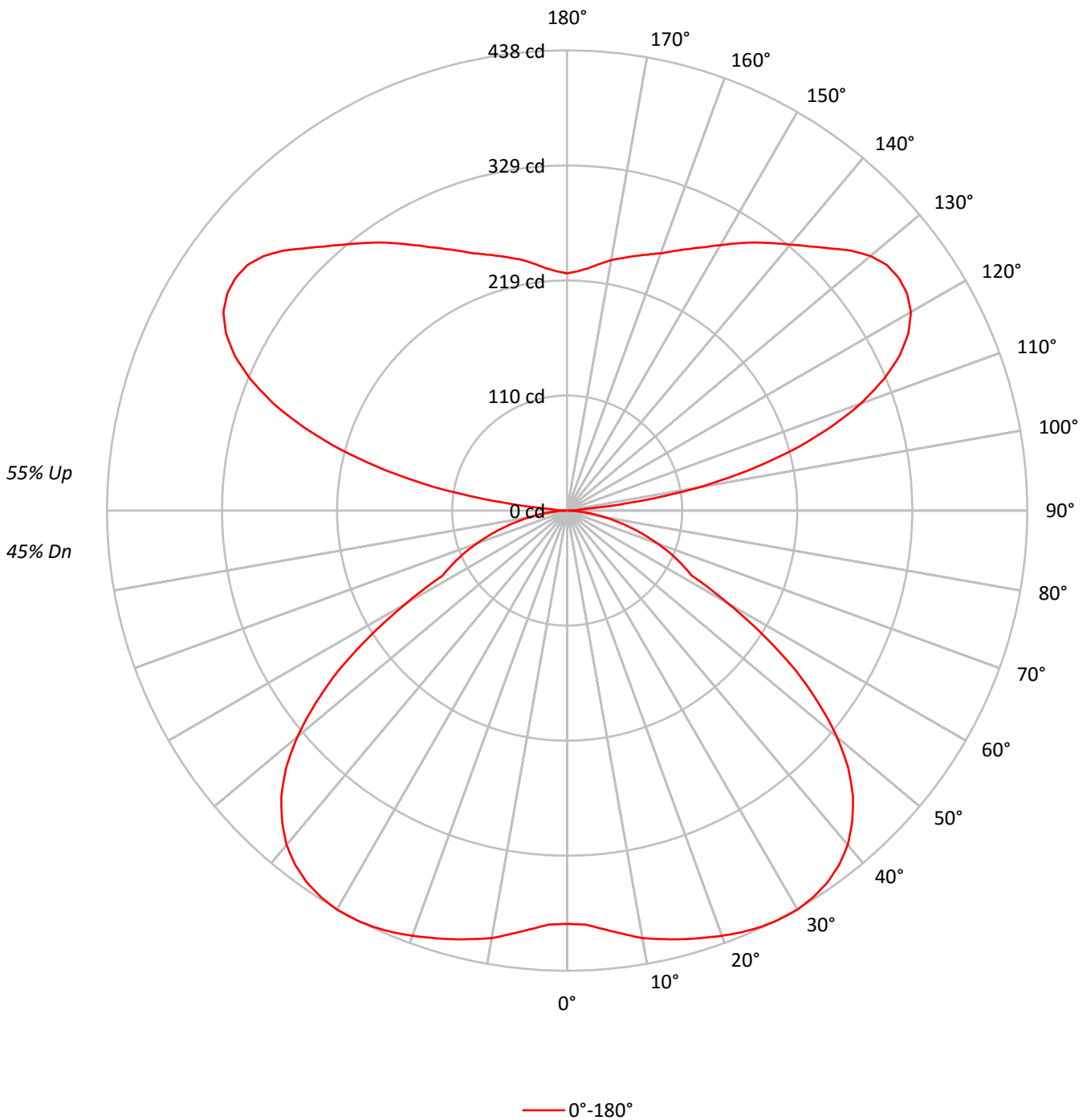
Lumens per Lamp: N/A
Luminaire Lumens: 3013.9 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 27.7
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°	1237
5°	1263
10°	1320
15°	1375
20°	1442
25°	1517
30°	1592
35°	1659
40°	1706
45°	1711
50°	1642
55°	1459
60°	1116
65°	893
70°	841
75°	766
80°	657
85°	498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	1.3
10°-20°	119.9	4.0
20°-30°	202.0	6.7
30°-40°	269.9	9.0
40°-50°	294.4	9.8
50°-60°	233.7	7.8
60°-70°	122.1	4.1
70°-80°	66.7	2.2
80°-90°	16.7	0.6
90°-100°	42.8	1.4
100°-110°	230.2	7.6
110°-120°	341.7	11.3
120°-130°	343.3	11.4
130°-140°	274.3	9.1
140°-150°	196.0	6.5
150°-160°	127.8	4.2
160°-170°	71.4	2.4
170°-180°	22.5	0.7
0°-30°	360.5	12.0
0°-40°	630.4	20.9
0°-60°	1158.5	38.4
0°-90°	1363.9	45.3
90°-120°	614.7	20.4
90°-150°	1428.3	47.4
90°-180°	1650.0	54.7
0°-180°	3013.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	393	
5°	400	39
15°	422	120
25°	437	202
35°	432	270
45°	385	294
55°	266	234
65°	120	122
75°	63	67
85°	14	16
90°	1	2
95°	16	42
105°	222	230
115°	349	342
125°	386	343
135°	353	274
145°	312	196
155°	275	128
165°	251	71
175°	232	22
180°	226	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	393.4
2.5°	394.3
5°	399.9
7.5°	406.3
10°	413.2
12.5°	417.8
15°	422.4
17.5°	426.5
20°	430.7
22.5°	434.3
25°	437.1
27.5°	438.5
30°	438.5
32.5°	436.2
35°	432.0
37.5°	425.1
40°	415.5
42.5°	401.7
45°	384.7
47.5°	363.1
50°	335.5
52.5°	302.4
55°	266.1
57.5°	222.9
60°	177.4
62.5°	133.3
65°	120.0
67.5°	106.2
70°	91.5
72.5°	76.8
75°	63.0
77.5°	49.2
80°	36.3
82.5°	24.8
85°	13.8
87.5°	4.1
90°	0.9
92.5°	7.4
95°	16.1
97.5°	69.9
100°	127.3
102.5°	176.5
105°	222.0
107.5°	262.0
110°	297.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	325.9
115°	349.3
117.5°	366.3
120°	377.8
122.5°	383.8
125°	385.6
127.5°	383.8
130°	376.9
132.5°	366.3
135°	353.0
137.5°	341.0
140°	330.5
142.5°	320.8
145°	311.6
147.5°	301.5
150°	291.8
152.5°	282.7
155°	274.8
157.5°	267.5
160°	260.6
162.5°	255.5
165°	250.9
167.5°	246.3
170°	242.2
172.5°	236.7
175°	231.6
177.5°	228.0
180°	225.7

(END OF REPORT)