

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: P402553

Luminaire Tested: **ShSe-DRUM-1-L35-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402553
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-L35-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

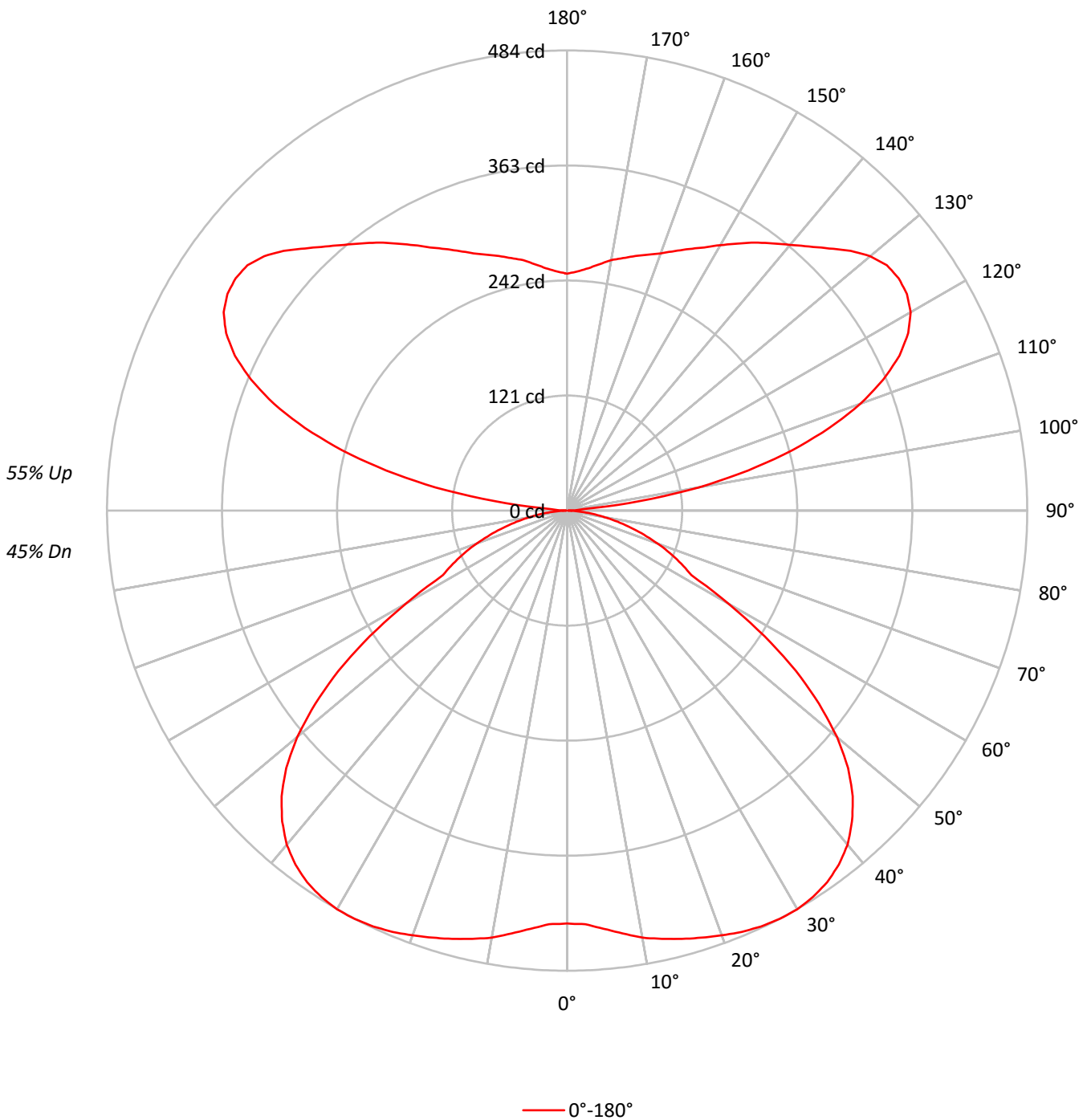
Lumens per Lamp: N/A
Luminaire Lumens: 3328.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 27.6
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°	1366
5°	1394
10°	1457
15°	1519
20°	1591
25°	1675
30°	1758
35°	1832
40°	1884
45°	1889
50°	1813
55°	1611
60°	1232
65°	986
70°	929
75°	845
80°	726
85°	548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.3
10°-20°	132.4	4.0
20°-30°	223.0	6.7
30°-40°	298.0	9.0
40°-50°	325.1	9.8
50°-60°	258.0	7.8
60°-70°	134.8	4.1
70°-80°	73.6	2.2
80°-90°	18.4	0.6
90°-100°	47.2	1.4
100°-110°	254.2	7.6
110°-120°	377.3	11.3
120°-130°	379.1	11.4
130°-140°	302.9	9.1
140°-150°	216.4	6.5
150°-160°	141.2	4.2
160°-170°	78.9	2.4
170°-180°	24.8	0.7
0°-30°	398.0	12.0
0°-40°	696.1	20.9
0°-60°	1279.2	38.4
0°-90°	1506.0	45.3
90°-120°	678.7	20.4
90°-150°	1577.1	47.4
90°-180°	1822.0	54.7
0°-180°	3328.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	434	
5°	442	43
15°	466	132
25°	483	223
35°	477	298
45°	425	325
55°	294	258
65°	132	135
75°	70	74
85°	15	18
90°	1	2
95°	18	46
105°	245	254
115°	386	377
125°	426	379
135°	390	303
145°	344	216
155°	304	141
165°	277	79
175°	256	25
180°	249	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	434.4
2.5°	435.4
5°	441.5
7.5°	448.6
10°	456.2
12.5°	461.3
15°	466.4
17.5°	471.0
20°	475.5
22.5°	479.6
25°	482.6
27.5°	484.2
30°	484.2
32.5°	481.6
35°	477.1
37.5°	469.4
40°	458.8
42.5°	443.6
45°	424.8
47.5°	400.9
50°	370.5
52.5°	333.9
55°	293.8
57.5°	246.1
60°	195.9
62.5°	147.2
65°	132.5
67.5°	117.2
70°	101.0
72.5°	84.8
75°	69.5
77.5°	54.3
80°	40.1
82.5°	27.4
85°	15.2
87.5°	4.6
90°	1.0
92.5°	8.1
95°	17.8
97.5°	77.1
100°	140.6
102.5°	194.9
105°	245.1
107.5°	289.3
110°	328.4



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	359.8
115°	385.7
117.5°	404.5
120°	417.2
122.5°	423.8
125°	425.8
127.5°	423.8
130°	416.2
132.5°	404.5
135°	389.8
137.5°	376.6
140°	364.9
142.5°	354.2
145°	344.1
147.5°	332.9
150°	322.3
152.5°	312.1
155°	303.5
157.5°	295.4
160°	287.8
162.5°	282.2
165°	277.1
167.5°	272.0
170°	267.5
172.5°	261.4
175°	255.8
177.5°	251.7
180°	249.2

(END OF REPORT)