

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: P402565

Luminaire Tested: **ShSe-DRUM-3-L40-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402565
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-L40-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

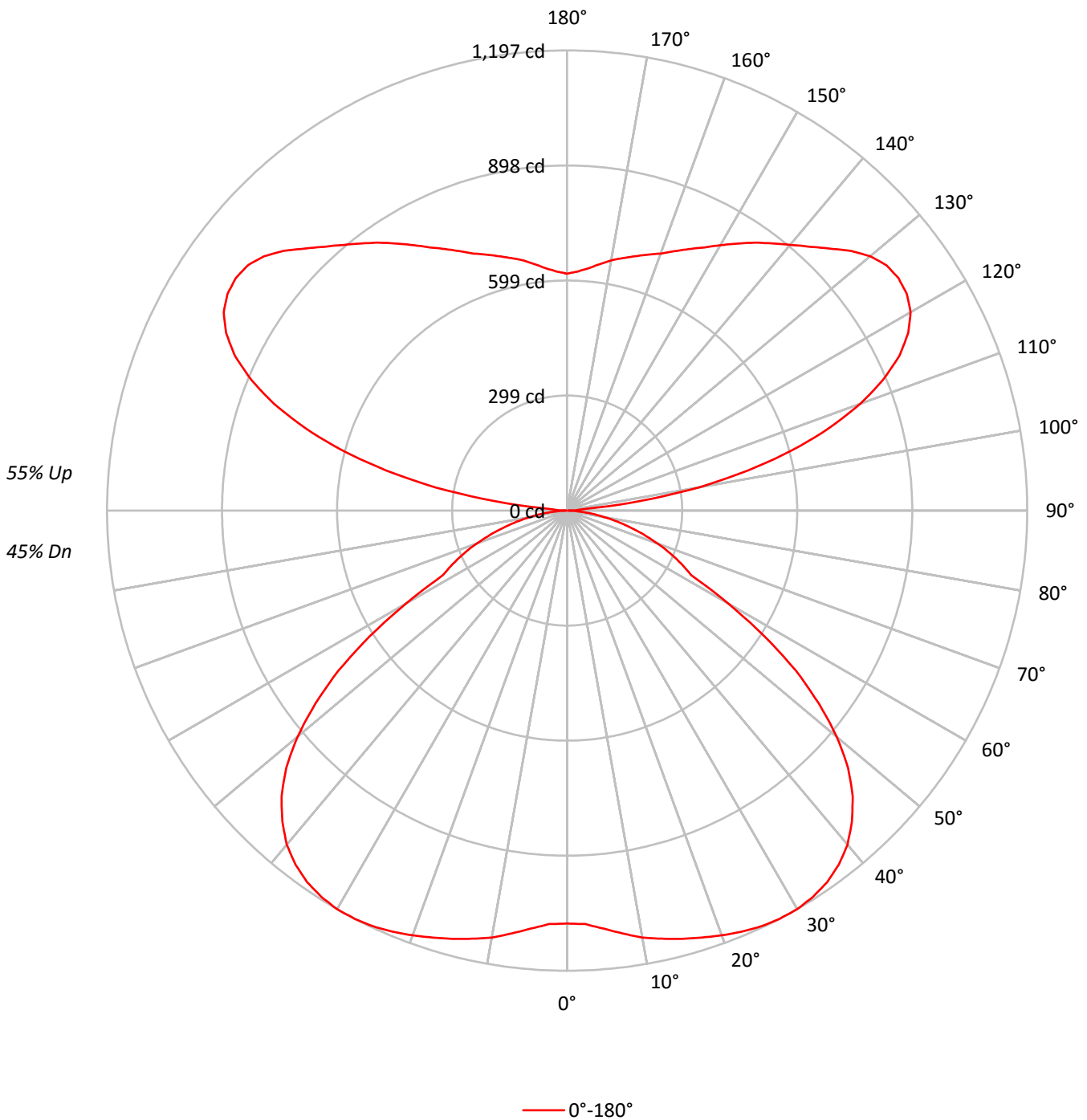
Lumens per Lamp: N/A
Luminaire Lumens: 8228.5 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

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°	3378
5°	3447
10°	3603
15°	3755
20°	3935
25°	4141
30°	4347
35°	4529
40°	4657
45°	4671
50°	4482
55°	3984
60°	3047
65°	2437
70°	2296
75°	2089
80°	1795
85°	1357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	1.3
10°-20°	327.4	4.0
20°-30°	551.4	6.7
30°-40°	736.9	9.0
40°-50°	803.8	9.8
50°-60°	638.0	7.8
60°-70°	333.3	4.1
70°-80°	182.0	2.2
80°-90°	45.6	0.6
90°-100°	116.7	1.4
100°-110°	628.4	7.6
110°-120°	933.0	11.3
120°-130°	937.2	11.4
130°-140°	748.8	9.1
140°-150°	535.2	6.5
150°-160°	349.0	4.2
160°-170°	195.0	2.4
170°-180°	61.3	0.7
0°-30°	984.2	12.0
0°-40°	1721.0	20.9
0°-60°	3162.9	38.4
0°-90°	3723.7	45.3
90°-120°	1678.2	20.4
90°-150°	3899.4	47.4
90°-180°	4505.0	54.7
0°-180°	8228.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1074	
5°	1092	105
15°	1153	327
25°	1193	551
35°	1180	737
45°	1050	804
55°	726	638
65°	328	333
75°	172	182
85°	38	44
90°	2	5
95°	44	114
105°	606	628
115°	954	933
125°	1053	937
135°	964	749
145°	851	535
155°	750	349
165°	685	195
175°	632	61
180°	616	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1074.1
2.5°	1076.6
5°	1091.7
7.5°	1109.3
10°	1128.1
12.5°	1140.6
15°	1153.2
17.5°	1164.5
20°	1175.8
22.5°	1185.8
25°	1193.3
27.5°	1197.1
30°	1197.1
32.5°	1190.8
35°	1179.5
37.5°	1160.7
40°	1134.4
42.5°	1096.7
45°	1050.3
47.5°	991.3
50°	916.0
52.5°	825.7
55°	726.5
57.5°	608.6
60°	484.4
62.5°	363.9
65°	327.5
67.5°	289.9
70°	249.7
72.5°	209.6
75°	171.9
77.5°	134.3
80°	99.1
82.5°	67.8
85°	37.6
87.5°	11.3
90°	2.5
92.5°	20.1
95°	43.9
97.5°	190.7
100°	347.6
102.5°	481.9
105°	606.1
107.5°	715.2
110°	811.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	889.7
115°	953.7
117.5°	1000.1
120°	1031.5
122.5°	1047.8
125°	1052.8
127.5°	1047.8
130°	1029.0
132.5°	1000.1
135°	963.7
137.5°	931.1
140°	902.2
142.5°	875.9
145°	850.8
147.5°	823.2
150°	796.8
152.5°	771.7
155°	750.4
157.5°	730.3
160°	711.5
162.5°	697.7
165°	685.1
167.5°	672.6
170°	661.3
172.5°	646.2
175°	632.4
177.5°	622.4
180°	616.1

(END OF REPORT)