

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: P402564

Luminaire Tested: **ShSe-DRUM-3-L35-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402564
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-L35-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

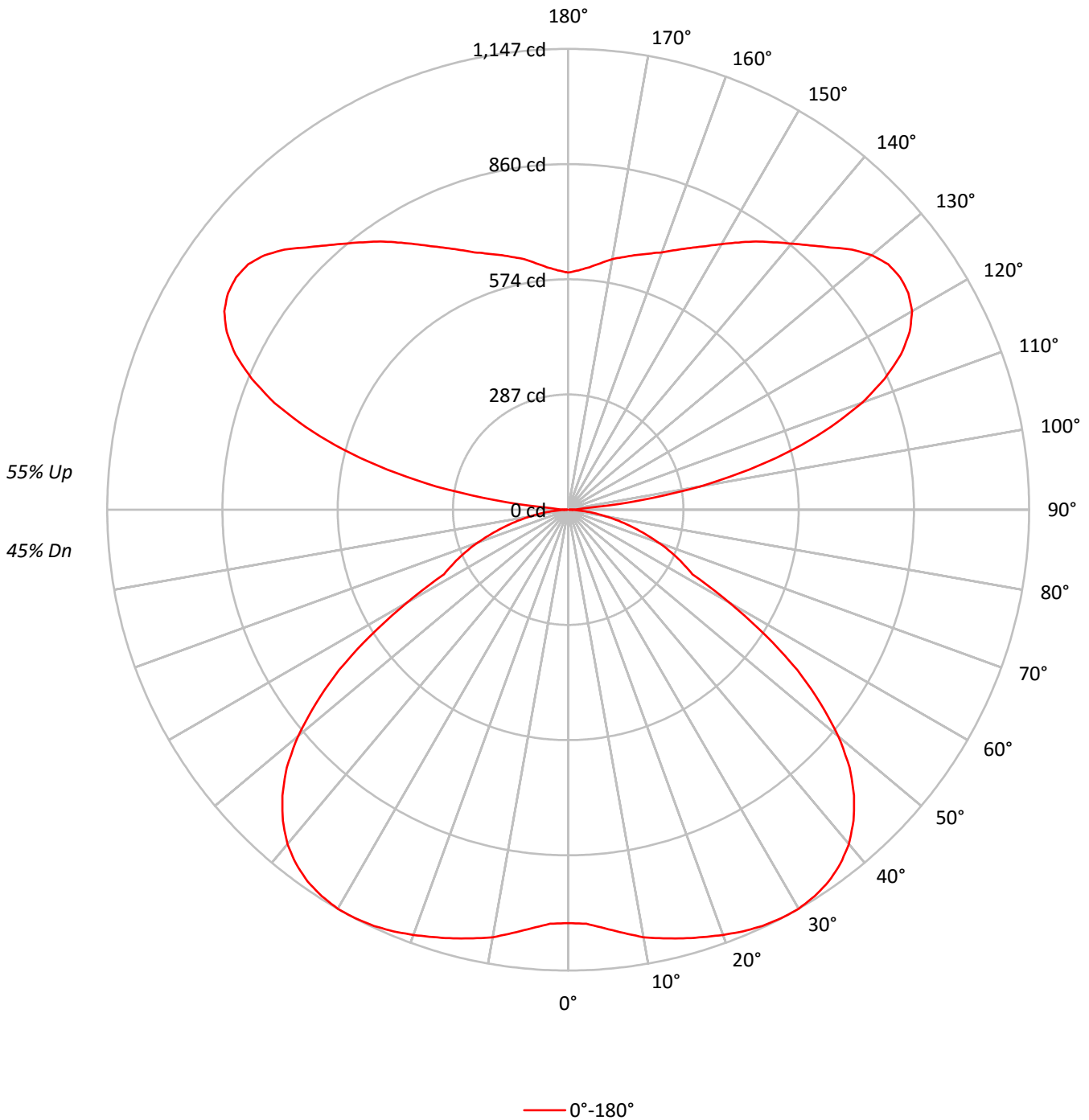
Lumens per Lamp: N/A
Luminaire Lumens: 7882.3 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

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°	3236
5°	3302
10°	3451
15°	3597
20°	3770
25°	3967
30°	4165
35°	4338
40°	4462
45°	4475
50°	4293
55°	3816
60°	2919
65°	2334
70°	2200
75°	2001
80°	1721
85°	1303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.3
10°-20°	313.6	4.0
20°-30°	528.2	6.7
30°-40°	705.9	9.0
40°-50°	770.0	9.8
50°-60°	611.2	7.8
60°-70°	319.3	4.1
70°-80°	174.3	2.2
80°-90°	43.6	0.6
90°-100°	111.8	1.4
100°-110°	602.0	7.6
110°-120°	893.7	11.3
120°-130°	897.8	11.4
130°-140°	717.3	9.1
140°-150°	512.6	6.5
150°-160°	334.4	4.2
160°-170°	186.8	2.4
170°-180°	58.7	0.7
0°-30°	942.8	12.0
0°-40°	1648.7	20.9
0°-60°	3029.8	38.4
0°-90°	3567.1	45.3
90°-120°	1607.6	20.4
90°-150°	3735.3	47.4
90°-180°	4315.0	54.7
0°-180°	7882.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1029	
5°	1046	101
15°	1105	314
25°	1143	528
35°	1130	706
45°	1006	770
55°	696	611
65°	314	319
75°	165	174
85°	36	42
90°	2	5
95°	42	109
105°	581	602
115°	914	894
125°	1008	898
135°	923	717
145°	815	513
155°	719	334
165°	656	187
175°	606	59
180°	590	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1029.0
2.5°	1031.4
5°	1045.8
7.5°	1062.6
10°	1080.6
12.5°	1092.7
15°	1104.7
17.5°	1115.5
20°	1126.3
22.5°	1135.9
25°	1143.1
27.5°	1146.8
30°	1146.8
32.5°	1140.7
35°	1129.9
37.5°	1111.9
40°	1086.7
42.5°	1050.6
45°	1006.1
47.5°	949.6
50°	877.5
52.5°	790.9
55°	696.0
57.5°	583.0
60°	464.0
62.5°	348.6
65°	313.7
67.5°	277.7
70°	239.2
72.5°	200.7
75°	164.7
77.5°	128.6
80°	95.0
82.5°	64.9
85°	36.1
87.5°	10.8
90°	2.4
92.5°	19.2
95°	42.1
97.5°	182.7
100°	333.0
102.5°	461.6
105°	580.6
107.5°	685.2
110°	777.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	852.3
115°	913.6
117.5°	958.0
120°	988.1
122.5°	1003.7
125°	1008.5
127.5°	1003.7
130°	985.7
132.5°	958.0
135°	923.2
137.5°	891.9
140°	864.3
142.5°	839.0
145°	815.0
147.5°	788.5
150°	763.3
152.5°	739.3
155°	718.8
157.5°	699.6
160°	681.6
162.5°	668.3
165°	656.3
167.5°	644.3
170°	633.5
172.5°	619.1
175°	605.8
177.5°	596.2
180°	590.2

(END OF REPORT)