

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: P402558

Luminaire Tested: **ShSe-DRUM-2-L35-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402558
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-L35-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

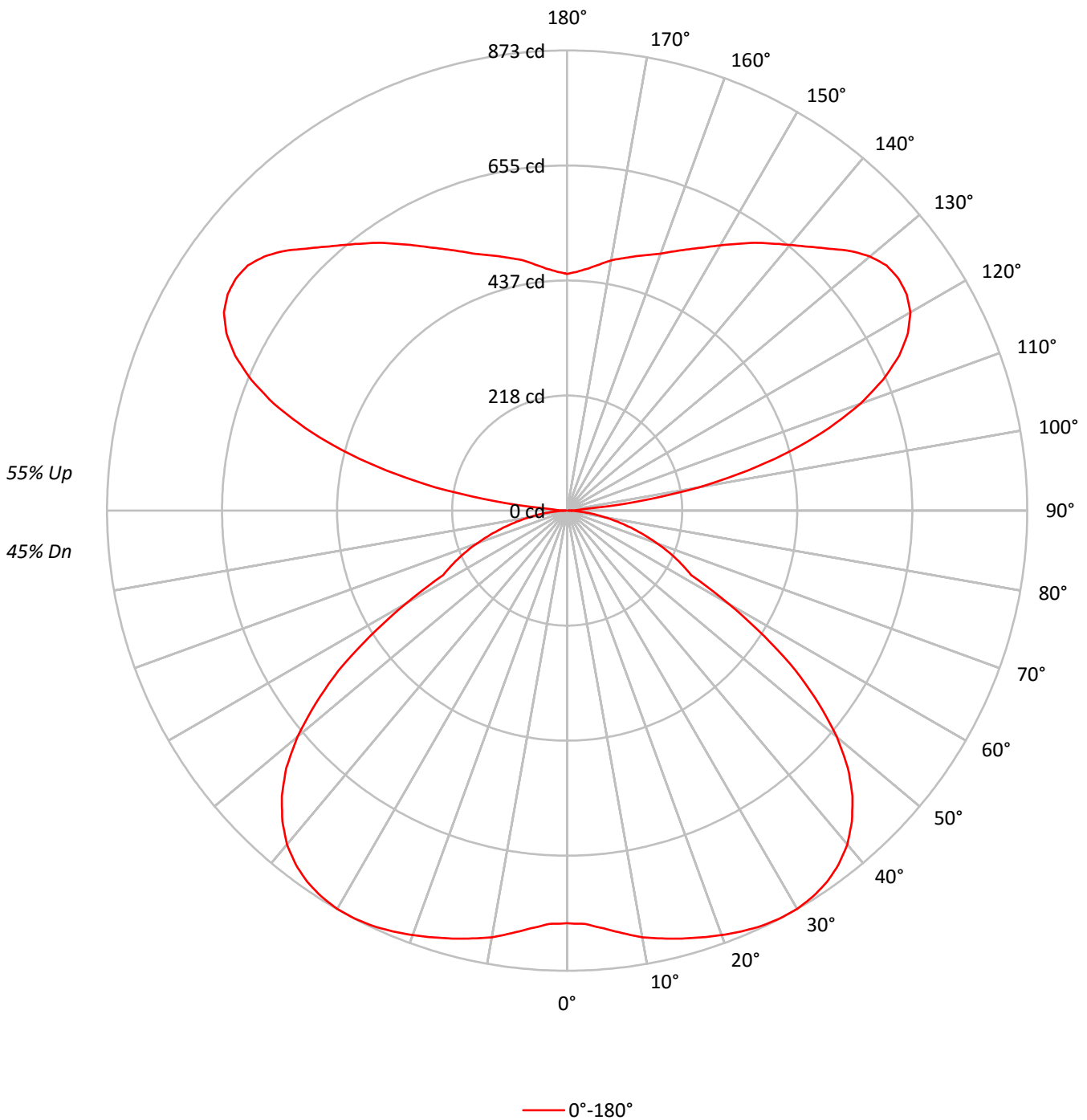
Lumens per Lamp: N/A
Luminaire Lumens: 5998.1 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

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°	2463
5°	2512
10°	2626
15°	2737
20°	2869
25°	3019
30°	3169
35°	3301
40°	3395
45°	3405
50°	3267
55°	2904
60°	2221
65°	1776
70°	1674
75°	1523
80°	1309
85°	989



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	1.3
10°-20°	238.7	4.0
20°-30°	402.0	6.7
30°-40°	537.1	9.0
40°-50°	586.0	9.8
50°-60°	465.1	7.8
60°-70°	243.0	4.1
70°-80°	132.6	2.2
80°-90°	33.2	0.6
90°-100°	85.1	1.4
100°-110°	458.1	7.6
110°-120°	680.1	11.3
120°-130°	683.2	11.4
130°-140°	545.9	9.1
140°-150°	390.1	6.5
150°-160°	254.4	4.2
160°-170°	142.2	2.4
170°-180°	44.7	0.7
0°-30°	717.4	12.0
0°-40°	1254.6	20.9
0°-60°	2305.6	38.4
0°-90°	2714.4	45.3
90°-120°	1223.3	20.4
90°-150°	2842.5	47.4
90°-180°	3284.0	54.8
0°-180°	5998.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	783	
5°	796	77
15°	841	239
25°	870	402
35°	860	537
45°	766	586
55°	530	465
65°	239	243
75°	125	133
85°	27	32
90°	2	4
95°	32	83
105°	442	458
115°	695	680
125°	768	683
135°	702	546
145°	620	390
155°	547	254
165°	499	142
175°	461	45
180°	449	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	783.0
2.5°	784.8
5°	795.8
7.5°	808.6
10°	822.3
12.5°	831.5
15°	840.6
17.5°	848.9
20°	857.1
22.5°	864.4
25°	869.9
27.5°	872.6
30°	872.6
32.5°	868.1
35°	859.8
37.5°	846.1
40°	826.9
42.5°	799.5
45°	765.6
47.5°	722.6
50°	667.7
52.5°	601.9
55°	529.6
57.5°	443.6
60°	353.1
62.5°	265.3
65°	238.7
67.5°	211.3
70°	182.0
72.5°	152.8
75°	125.3
77.5°	97.9
80°	72.3
82.5°	49.4
85°	27.4
87.5°	8.2
90°	1.8
92.5°	14.6
95°	32.0
97.5°	139.0
100°	253.4
102.5°	351.3
105°	441.8
107.5°	521.4
110°	591.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	648.5
115°	695.2
117.5°	729.0
120°	751.9
122.5°	763.8
125°	767.5
127.5°	763.8
130°	750.1
132.5°	729.0
135°	702.5
137.5°	678.7
140°	657.7
142.5°	638.5
145°	620.2
147.5°	600.1
150°	580.8
152.5°	562.6
155°	547.0
157.5°	532.4
160°	518.6
162.5°	508.6
165°	499.4
167.5°	490.3
170°	482.1
172.5°	471.1
175°	461.0
177.5°	453.7
180°	449.1

(END OF REPORT)