

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: P402560

Luminaire Tested: **ShSe-DRUM-2-L40-80-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402560
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-L40-80-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

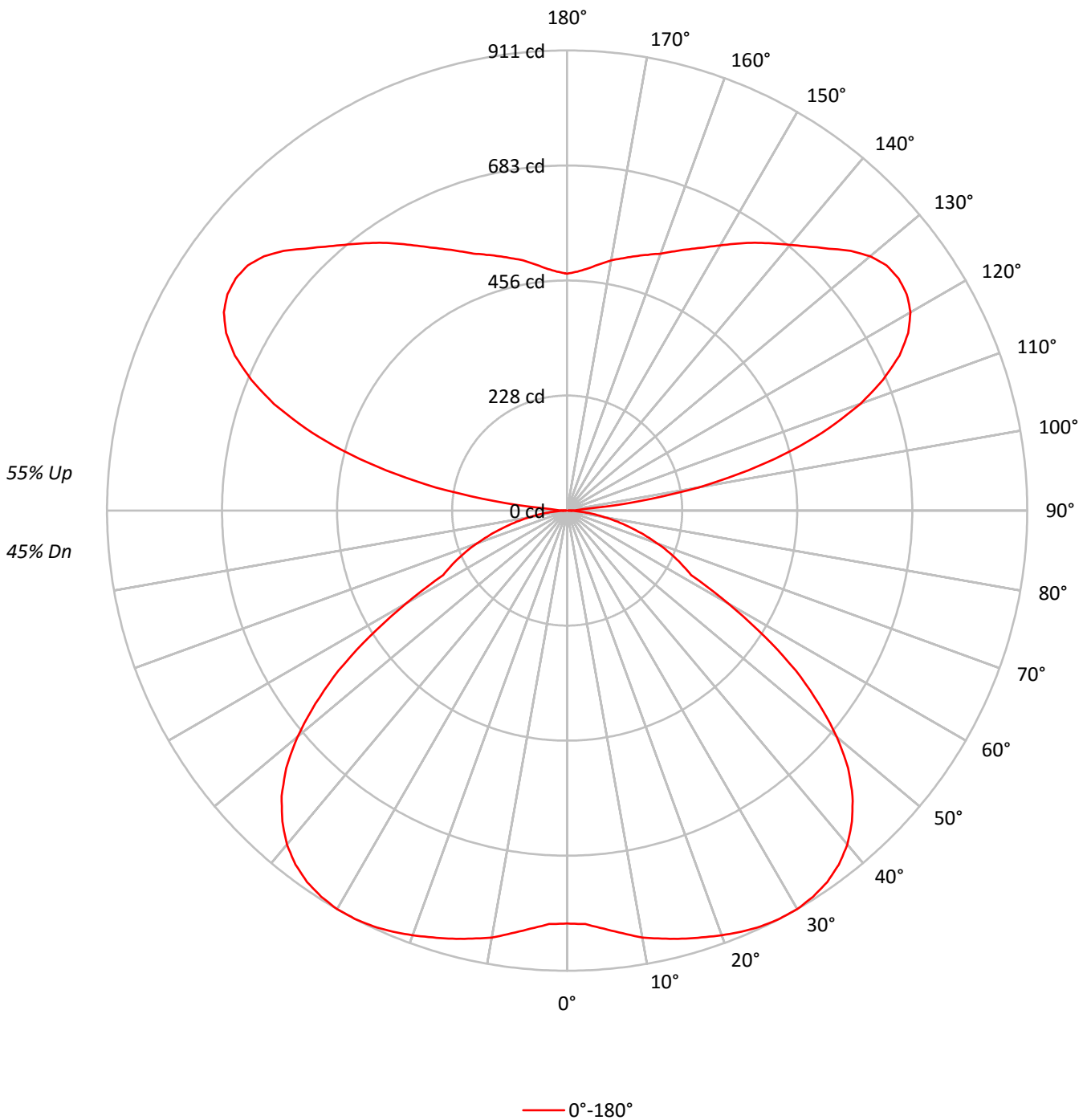
Lumens per Lamp: N/A
Luminaire Lumens: 6261.5 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

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°	2571
5°	2623
10°	2741
15°	2857
20°	2994
25°	3151
30°	3308
35°	3446
40°	3544
45°	3555
50°	3411
55°	3032
60°	2319
65°	1855
70°	1747
75°	1589
80°	1366
85°	1032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	1.3
10°-20°	249.1	4.0
20°-30°	419.6	6.7
30°-40°	560.8	9.0
40°-50°	611.7	9.8
50°-60°	485.5	7.8
60°-70°	253.6	4.1
70°-80°	138.5	2.2
80°-90°	34.7	0.6
90°-100°	88.8	1.4
100°-110°	478.2	7.6
110°-120°	709.9	11.3
120°-130°	713.2	11.4
130°-140°	569.8	9.1
140°-150°	407.2	6.5
150°-160°	265.6	4.2
160°-170°	148.4	2.4
170°-180°	46.6	0.7
0°-30°	748.9	12.0
0°-40°	1309.7	20.9
0°-60°	2406.9	38.4
0°-90°	2833.6	45.3
90°-120°	1277.0	20.4
90°-150°	2967.2	47.4
90°-180°	3428.0	54.7
0°-180°	6261.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	817	
5°	831	80
15°	878	249
25°	908	420
35°	898	561
45°	799	612
55°	553	485
65°	249	254
75°	131	138
85°	29	33
90°	2	4
95°	33	86
105°	461	478
115°	726	710
125°	801	713
135°	733	570
145°	647	407
155°	571	266
165°	521	148
175°	481	47
180°	469	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	817.4
2.5°	819.3
5°	830.7
7.5°	844.1
10°	858.4
12.5°	868.0
15°	877.5
17.5°	886.1
20°	894.7
22.5°	902.4
25°	908.1
27.5°	911.0
30°	911.0
32.5°	906.2
35°	897.6
37.5°	883.3
40°	863.2
42.5°	834.6
45°	799.2
47.5°	754.4
50°	697.1
52.5°	628.3
55°	552.9
57.5°	463.1
60°	368.6
62.5°	276.9
65°	249.2
67.5°	220.6
70°	190.0
72.5°	159.5
75°	130.8
77.5°	102.2
80°	75.4
82.5°	51.6
85°	28.6
87.5°	8.6
90°	1.9
92.5°	15.3
95°	33.4
97.5°	145.1
100°	264.5
102.5°	366.7
105°	461.2
107.5°	544.3
110°	617.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	677.0
115°	725.7
117.5°	761.0
120°	784.9
122.5°	797.3
125°	801.1
127.5°	797.3
130°	783.0
132.5°	761.0
135°	733.3
137.5°	708.5
140°	686.6
142.5°	666.5
145°	647.4
147.5°	626.4
150°	606.3
152.5°	587.2
155°	571.0
157.5°	555.7
160°	541.4
162.5°	530.9
165°	521.4
167.5°	511.8
170°	503.2
172.5°	491.8
175°	481.3
177.5°	473.6
180°	468.8

(END OF REPORT)