

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: P402559

Luminaire Tested: **ShSe-DRUM-2-L35-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402559
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-L35-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

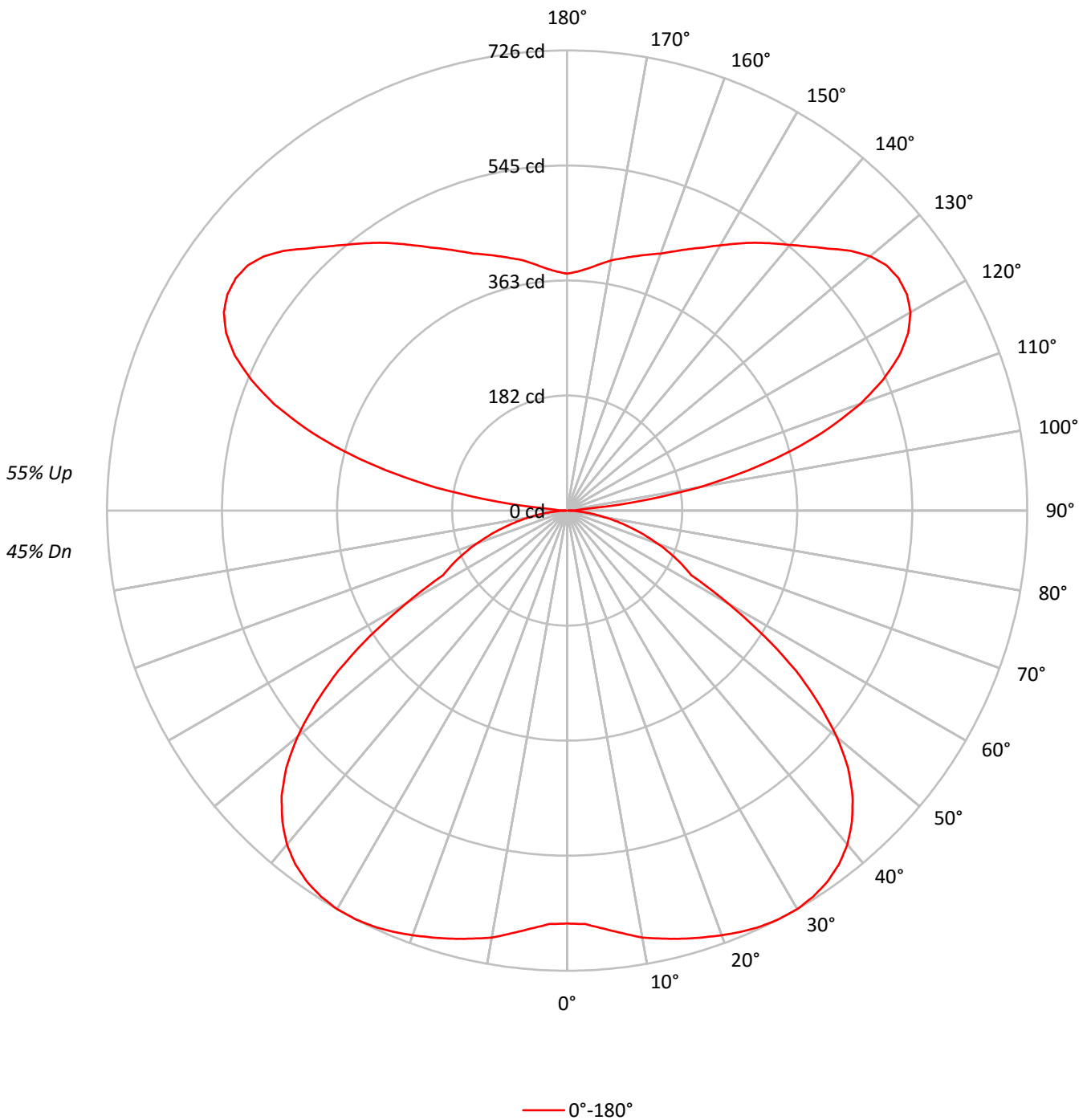
Lumens per Lamp: N/A
Luminaire Lumens: 4989.9 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

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°	2049
5°	2090
10°	2185
15°	2277
20°	2386
25°	2511
30°	2637
35°	2746
40°	2824
45°	2833
50°	2718
55°	2416
60°	1847
65°	1478
70°	1392
75°	1267
80°	1089
85°	823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.3
10°-20°	198.5	4.0
20°-30°	334.4	6.7
30°-40°	446.9	9.0
40°-50°	487.5	9.8
50°-60°	386.9	7.8
60°-70°	202.1	4.1
70°-80°	110.3	2.2
80°-90°	27.6	0.6
90°-100°	70.8	1.4
100°-110°	381.1	7.6
110°-120°	565.7	11.3
120°-130°	568.4	11.4
130°-140°	454.1	9.1
140°-150°	324.5	6.5
150°-160°	211.7	4.2
160°-170°	118.3	2.4
170°-180°	37.2	0.7
0°-30°	596.8	12.0
0°-40°	1043.7	20.9
0°-60°	1918.1	38.4
0°-90°	2258.2	45.3
90°-120°	1017.6	20.4
90°-150°	2364.6	47.4
90°-180°	2732.0	54.8
0°-180°	4989.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	651	
5°	662	64
15°	699	199
25°	724	334
35°	715	447
45°	637	487
55°	441	387
65°	199	202
75°	104	110
85°	23	26
90°	2	3
95°	27	69
105°	368	381
115°	578	566
125°	638	568
135°	584	454
145°	516	325
155°	455	212
165°	416	118
175°	384	37
180°	374	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	651.4
2.5°	652.9
5°	662.0
7.5°	672.7
10°	684.1
12.5°	691.7
15°	699.3
17.5°	706.2
20°	713.0
22.5°	719.1
25°	723.7
27.5°	726.0
30°	726.0
32.5°	722.2
35°	715.3
37.5°	703.9
40°	687.9
42.5°	665.1
45°	636.9
47.5°	601.2
50°	555.5
52.5°	500.7
55°	440.6
57.5°	369.1
60°	293.7
62.5°	220.7
65°	198.6
67.5°	175.8
70°	151.4
72.5°	127.1
75°	104.3
77.5°	81.4
80°	60.1
82.5°	41.1
85°	22.8
87.5°	6.8
90°	1.5
92.5°	12.2
95°	26.6
97.5°	115.7
100°	210.8
102.5°	292.2
105°	367.5
107.5°	433.8
110°	492.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	539.5
115°	578.3
117.5°	606.5
120°	625.5
122.5°	635.4
125°	638.5
127.5°	635.4
130°	624.0
132.5°	606.5
135°	584.4
137.5°	564.6
140°	547.1
142.5°	531.2
145°	515.9
147.5°	499.2
150°	483.2
152.5°	468.0
155°	455.1
157.5°	442.9
160°	431.5
162.5°	423.1
165°	415.5
167.5°	407.9
170°	401.0
172.5°	391.9
175°	383.5
177.5°	377.4
180°	373.6

(END OF REPORT)