

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: G3-2004-737-4

Luminaire Tested: **ShSe-DRUM-3-L35-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: G3-2004-737-4
Test Lab: INNOVATION CENTER (G3)
Issue Date: 6/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: ShSe-DRUM-3-L35-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

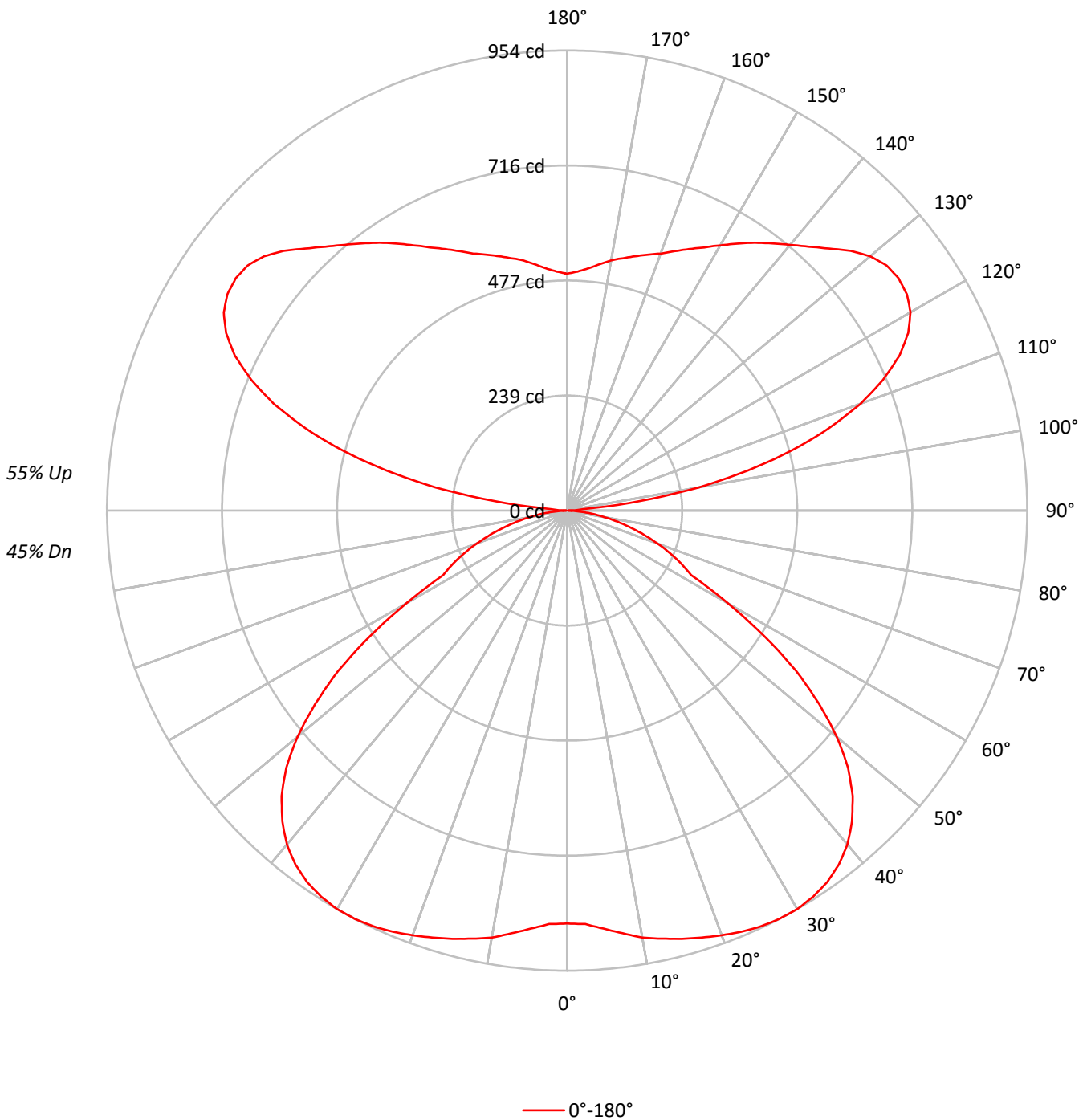
Lumens per Lamp: N/A
Luminaire Lumens: 6557.4 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 60.4
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°	2692
5°	2747
10°	2871
15°	2992
20°	3136
25°	3300
30°	3465
35°	3609
40°	3711
45°	3723
50°	3572
55°	3175
60°	2428
65°	1942
70°	1830
75°	1665
80°	1431
85°	1083



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.3
10°-20°	260.9	4.0
20°-30°	439.4	6.7
30°-40°	587.2	9.0
40°-50°	640.6	9.8
50°-60°	508.4	7.8
60°-70°	265.6	4.1
70°-80°	145.0	2.2
80°-90°	36.3	0.6
90°-100°	93.0	1.4
100°-110°	500.8	7.6
110°-120°	743.5	11.3
120°-130°	746.9	11.4
130°-140°	596.8	9.1
140°-150°	426.5	6.5
150°-160°	278.2	4.2
160°-170°	155.4	2.4
170°-180°	48.8	0.7
0°-30°	784.3	12.0
0°-40°	1371.6	20.9
0°-60°	2520.6	38.4
0°-90°	2967.5	45.3
90°-120°	1337.3	20.4
90°-150°	3107.5	47.4
90°-180°	3590.0	54.7
0°-180°	6557.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	856	
5°	870	84
15°	919	261
25°	951	439
35°	940	587
45°	837	641
55°	579	508
65°	261	266
75°	137	145
85°	30	35
90°	2	4
95°	35	91
105°	483	501
115°	760	743
125°	839	747
135°	768	597
145°	678	426
155°	598	278
165°	546	155
175°	504	49
180°	491	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	856
2.5°	858
5°	870
7.5°	884
10°	899
12.5°	909
15°	919
17.5°	928
20°	937
22.5°	945
25°	951
27.5°	954
30°	954
32.5°	949
35°	940
37.5°	925
40°	904
42.5°	874
45°	837
47.5°	790
50°	730
52.5°	658
55°	579
57.5°	485
60°	386
62.5°	290
65°	261
67.5°	231
70°	199
72.5°	167
75°	137
77.5°	107
80°	79
82.5°	54
85°	30
87.5°	9
90°	2
92.5°	16
95°	35
97.5°	152
100°	277
102.5°	384
105°	483
107.5°	570
110°	647

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	709
115°	760
117.5°	797
120°	822
122.5°	835
125°	839
127.5°	835
130°	820
132.5°	797
135°	768
137.5°	742
140°	719
142.5°	698
145°	678
147.5°	656
150°	635
152.5°	615
155°	598
157.5°	582
160°	567
162.5°	556
165°	546
167.5°	536
170°	527
172.5°	515
175°	504
177.5°	496
180°	491

(END OF REPORT)