

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: P402557

Luminaire Tested: **ShSe-DRUM-2-L30-90-UNV-STD**

Issue Date: 6/5/2020

Test Information

Test Method: LM-79-08
Report Number: P402557
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-L30-90-UNV-STD
Description: SHAPER SENSE CIRCLE
LIGHT LEVEL 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

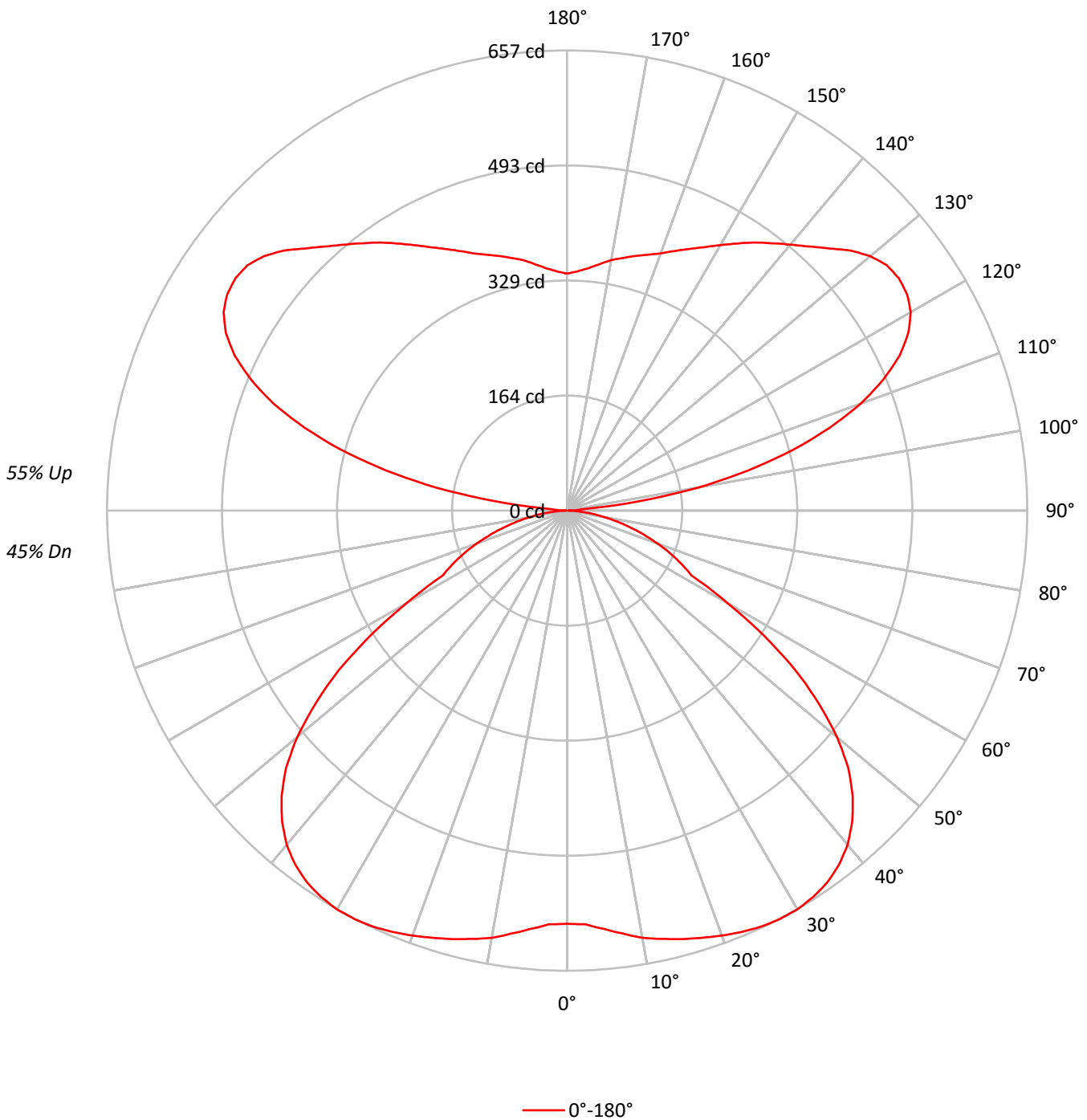
Lumens per Lamp: N/A
Luminaire Lumens: 4519.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.62 / 1.62 / 1.62
Luminous Opening: Circular (Dia: 2.09' x H: 0')
CIE Type: General Diffuse

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°	1855
5°	1893
10°	1978
15°	2062
20°	2161
25°	2274
30°	2387
35°	2487
40°	2558
45°	2565
50°	2462
55°	2188
60°	1673
65°	1339
70°	1261
75°	1147
80°	985
85°	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.3
10°-20°	179.8	4.0
20°-30°	302.8	6.7
30°-40°	404.7	9.0
40°-50°	441.5	9.8
50°-60°	350.4	7.8
60°-70°	183.1	4.1
70°-80°	99.9	2.2
80°-90°	25.0	0.6
90°-100°	64.1	1.4
100°-110°	345.1	7.6
110°-120°	512.4	11.3
120°-130°	514.7	11.4
130°-140°	411.2	9.1
140°-150°	293.9	6.5
150°-160°	191.7	4.2
160°-170°	107.1	2.4
170°-180°	33.7	0.7
0°-30°	540.5	12.0
0°-40°	945.2	20.9
0°-60°	1737.0	38.4
0°-90°	2045.0	45.3
90°-120°	921.6	20.4
90°-150°	2141.5	47.4
90°-180°	2474.0	54.7
0°-180°	4519.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	590	
5°	600	58
15°	633	180
25°	655	303
35°	648	405
45°	577	441
55°	399	350
65°	180	183
75°	94	100
85°	21	24
90°	1	3
95°	24	62
105°	333	345
115°	524	512
125°	578	515
135°	529	411
145°	467	294
155°	412	192
165°	376	107
175°	347	34
180°	338	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	589.9
2.5°	591.3
5°	599.6
7.5°	609.2
10°	619.5
12.5°	626.4
15°	633.3
17.5°	639.5
20°	645.7
22.5°	651.2
25°	655.4
27.5°	657.4
30°	657.4
32.5°	654.0
35°	647.8
37.5°	637.5
40°	623.0
42.5°	602.3
45°	576.8
47.5°	544.4
50°	503.1
52.5°	453.5
55°	399.0
57.5°	334.2
60°	266.0
62.5°	199.9
65°	179.9
67.5°	159.2
70°	137.1
72.5°	115.1
75°	94.4
77.5°	73.7
80°	54.4
82.5°	37.2
85°	20.7
87.5°	6.2
90°	1.4
92.5°	11.0
95°	24.1
97.5°	104.8
100°	190.9
102.5°	264.6
105°	332.9
107.5°	392.8
110°	445.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	488.6
115°	523.8
117.5°	549.2
120°	566.5
122.5°	575.4
125°	578.2
127.5°	575.4
130°	565.1
132.5°	549.2
135°	529.3
137.5°	511.3
140°	495.5
142.5°	481.0
145°	467.2
147.5°	452.1
150°	437.6
152.5°	423.8
155°	412.1
157.5°	401.1
160°	390.7
162.5°	383.2
165°	376.3
167.5°	369.4
170°	363.2
172.5°	354.9
175°	347.3
177.5°	341.8
180°	338.4

(END OF REPORT)