

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: P273534

Luminaire Tested: **122-24-P1S-L5/835-UNV-NA-24**

Test Date: 08/05/15

**Test Information**

Test Method: LM-79-08  
Report Number: P273534  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34340)  
Test Lab: INNOVATION CENTER-P3  
Test Date: 08/05/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 122-24-P1S-L5/835-UNV-NA-24  
Description: SHAPER 122 SERIES 24" FABRIQUE DRUM PENDANT LUMINAIRE  
Light Source: 15 CKTS 3500K LEDS  
12441843  
Ballast/Driver: (2) HATCH ELECTRONIC DRIVER  
LC25-1050Z-UNV-Q

**Summary**

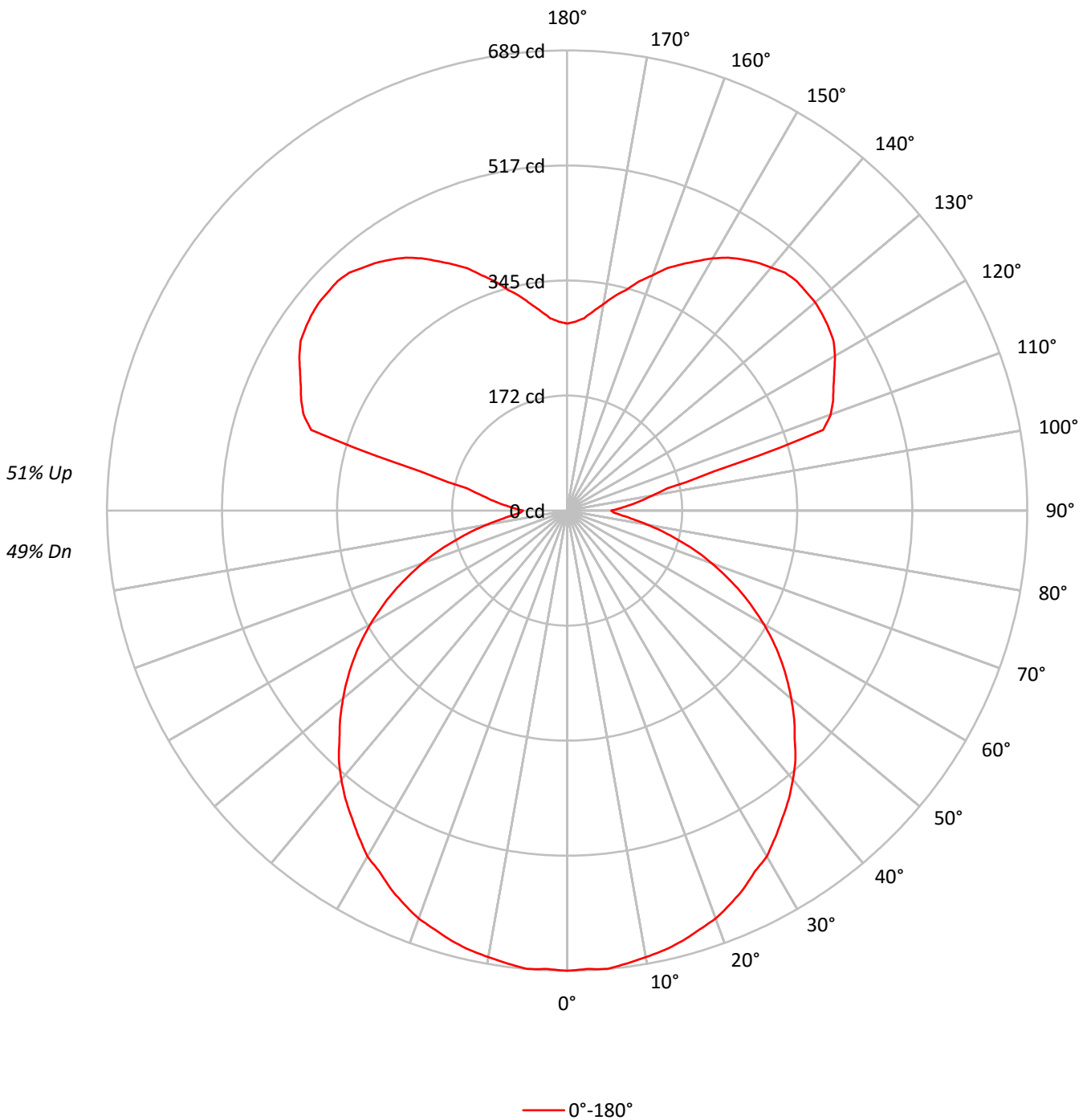
Lumens per Lamp: N/A  
Luminaire Lumens: 4404.1 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.41  
Luminous Opening: Vertical Cylinder (Dia: 2' x H: 0.67')  
CIE Type: General Diffuse

Input Watts (W): 46.9  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.392  
Voltage Rise (V): NR  
Power Factor: 0.9985  
Total Harmonic Distortion (THDi): 6.81  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: HR  
Ambient Temperature (°C): 25.0  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	97	92	88	84	89	85	81	78	72	69	67	59	57	56	48	47	45	40
2	88	80	74	68	81	74	68	63	62	58	54	52	48	46	42	39	38	33
3	80	70	62	56	73	65	58	53	55	49	45	45	41	38	37	34	32	27
4	73	62	54	47	67	57	50	44	48	43	38	40	36	32	32	29	27	23
5	67	55	46	40	61	51	43	38	43	37	33	36	31	28	29	26	23	20
6	61	49	41	35	56	45	38	33	39	33	28	32	28	24	26	23	20	17
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18	15
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16	14
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14	12
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13	11

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	2361
5°	2285
10°	2198
15°	2124
20°	2053
25°	1972
30°	1900
35°	1812
40°	1735
45°	1640
50°	1550
55°	1454
60°	1343
65°	1214
70°	1064
75°	891
80°	707
85°	551



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	1.5
10°-20°	188.3	4.3
20°-30°	288.1	6.5
30°-40°	352.3	8.0
40°-50°	372.9	8.5
50°-60°	349.3	7.9
60°-70°	282.7	6.4
70°-80°	185.0	4.2
80°-90°	94.3	2.1
90°-100°	104.0	2.4
100°-110°	278.5	6.3
110°-120°	437.4	9.9
120°-130°	427.5	9.7
130°-140°	374.5	8.5
140°-150°	288.1	6.5
150°-160°	189.0	4.3
160°-170°	98.4	2.2
170°-180°	28.4	0.6
0°-30°	541.8	12.3
0°-40°	894.1	20.3
0°-60°	1616.3	36.7
0°-90°	2178.3	49.5
90°-120°	819.8	18.6
90°-150°	1910.0	43.4
90°-180°	2226.0	50.5
0°-180°	4404.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	689	
5°	689	65
15°	667	188
25°	625	288
35°	562	352
45°	482	373
55°	391	349
65°	286	283
75°	174	185
85°	82	76
90°	66	39
95°	94	84
105°	228	278
115°	440	437
125°	478	428
135°	486	375
145°	459	288
155°	407	189
165°	342	98
175°	289	28
180°	280	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	689
2.5°	687
5°	689
7.5°	684
10°	679
12.5°	674
15°	667
17.5°	658
20°	650
22.5°	638
25°	625
27.5°	609
30°	598
32.5°	580
35°	562
37.5°	545
40°	526
42.5°	506
45°	482
47.5°	461
50°	438
52.5°	415
55°	391
57.5°	366
60°	340
62.5°	313
65°	286
67.5°	258
70°	230
72.5°	203
75°	174
77.5°	148
80°	122
82.5°	100
85°	82
87.5°	70
90°	66
92.5°	79
95°	94
97.5°	111
100°	129
102.5°	154
105°	228
107.5°	402
110°	420



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	431
115°	440
117.5°	451
120°	463
122.5°	473
125°	478
127.5°	482
130°	485
132.5°	485
135°	486
137.5°	483
140°	475
142.5°	468
145°	459
147.5°	449
150°	436
152.5°	421
155°	407
157.5°	393
160°	375
162.5°	360
165°	342
167.5°	329
170°	314
172.5°	301
175°	289
177.5°	283
180°	280

(END OF REPORT)