

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: P34029

Luminaire Tested: **144-36-P1S-L9/835**

Test Date: 04/20/15

**Test Information**

Test Method: LM-79-08  
Report Number: P34029  
Test Lab: INNOVATION CENTER-P2  
Test Date: 04/20/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 144-36-P15-L9/835  
Description: SHAPER 144 FABRIQUE CONICAL PENDANT LUMINAIRE WITH SHANTUNG WHITE SHADE. THDi: 10.2%, PF:.99326; PREBURN: 12 HR, TOTAL OP TIME: 13 HR, STAB: 30 MIN  
Light Source: (66) 3500K EATON LEDS  
12451476, 12441843  
Ballast/Driver: (1) HATCH ELECTRONIC DRIVER (1) ROAL ELECTRONIC DRIVER  
LC60-2400Z-UNV-F, RSLD035-07

**Summary**

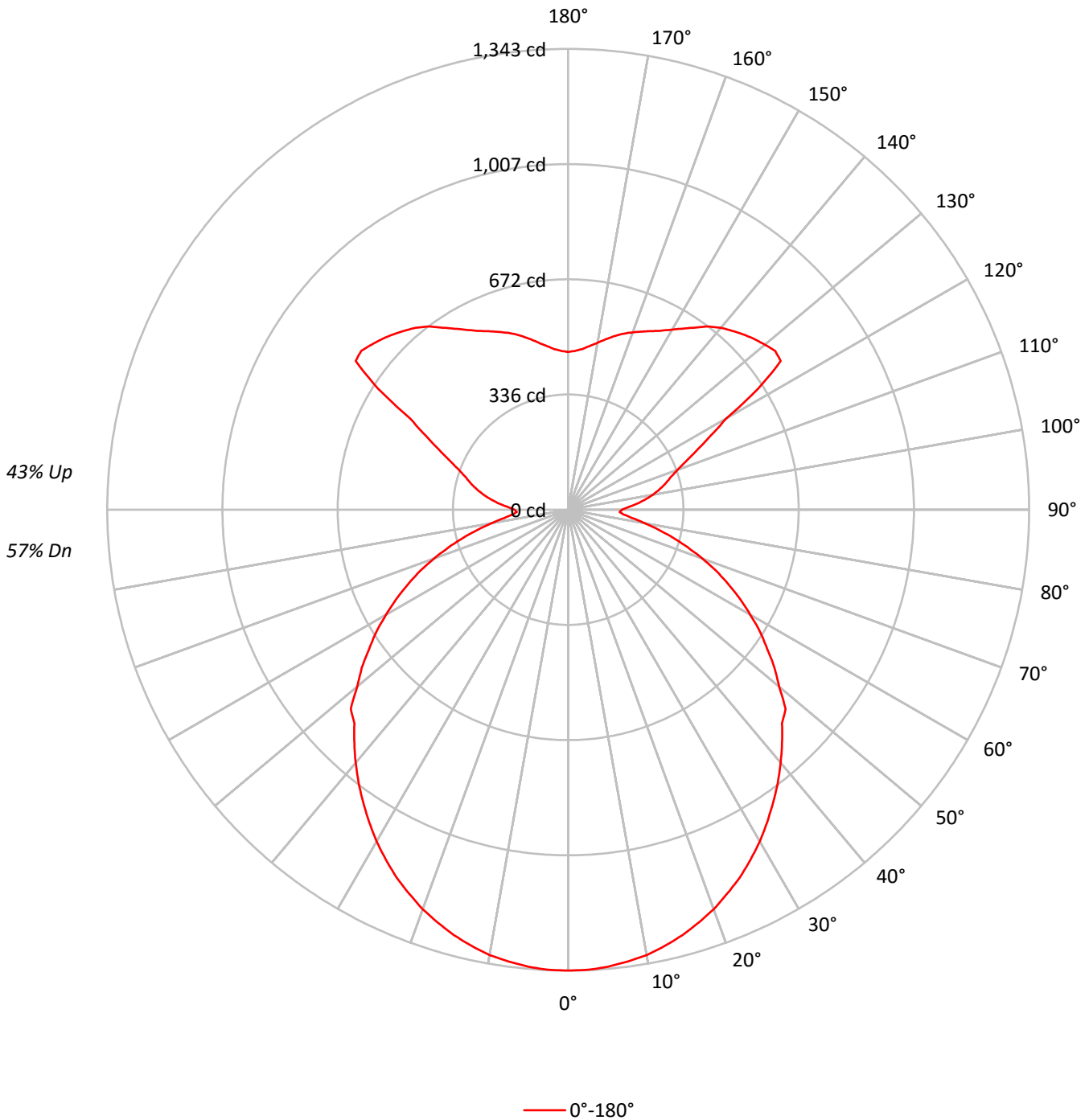
Lumens per Lamp: N/A  
Luminaire Lumens: 7046.4 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36  
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 1')  
CIE Type: General Diffuse

Input Watts (W): 78.6  
Input Voltage (V): 120.0  
Input Current (Ain): 0.663  
Voltage Rise (V): NR  
Power Factor: 0.9933  
Total Harmonic Distortion (THDi): 10.2  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: HR  
Ambient Temperature (°C): 24.9  
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	109	109	109	109	101	101	101	101	87	87	87		75	75	75		63	63	63	57
1	99	94	89	86	91	87	84	80	75	72	70		64	62	60		54	53	51	46
2	89	81	75	69	83	76	70	65	65	61	57		56	53	50		47	45	42	38
3	81	71	63	57	75	66	60	54	57	52	48		49	45	42		41	38	36	32
4	74	63	54	48	69	59	51	45	51	45	40		44	39	35		37	33	31	27
5	68	56	47	41	63	52	45	39	45	39	35		39	34	30		33	29	26	23
6	63	50	42	36	58	47	39	34	41	35	30		35	30	27		30	26	23	20
7	58	45	37	31	54	42	35	30	37	31	26		32	27	23		27	23	20	18
8	54	41	33	27	50	38	31	26	34	28	23		29	24	21		25	21	18	16
9	50	37	30	24	46	35	28	23	31	25	21		27	22	19		23	19	16	14
10	47	34	27	22	43	32	25	21	28	23	19		25	20	17		21	18	15	13

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

	0°
0°	2045
5°	1971
10°	1896
15°	1818
20°	1739
25°	1659
30°	1576
35°	1492
40°	1412
45°	1332
50°	1262
55°	1170
60°	1076
65°	971
70°	853
75°	720
80°	582
85°	484



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.0	1.8
10°-20°	362.2	5.1
20°-30°	544.7	7.7
30°-40°	651.9	9.3
40°-50°	684.7	9.7
50°-60°	634.6	9.0
60°-70°	510.2	7.2
70°-80°	335.6	4.8
80°-90°	188.7	2.7
90°-100°	219.7	3.1
100°-110°	309.5	4.4
110°-120°	418.9	5.9
120°-130°	629.0	8.9
130°-140°	559.2	7.9
140°-150°	408.8	5.8
150°-160°	267.1	3.8
160°-170°	149.1	2.1
170°-180°	45.6	0.6
0°-30°	1033.8	14.7
0°-40°	1685.7	23.9
0°-60°	3005.0	42.6
0°-90°	4039.4	57.3
90°-120°	948.1	13.5
90°-150°	2545.1	36.1
90°-180°	3007.0	42.7
0°-180°	7046.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1343	
5°	1337	127
15°	1284	362
25°	1183	545
35°	1041	652
45°	881	685
55°	708	635
65°	515	510
75°	316	336
85°	162	147
90°	156	87
95°	202	174
105°	293	310
115°	416	419
125°	756	629
135°	722	559
145°	648	409
155°	574	267
165°	524	149
175°	470	46
180°	460	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1343
2.5°	1342
5°	1337
7.5°	1328
10°	1318
12.5°	1302
15°	1284
17.5°	1262
20°	1239
22.5°	1211
25°	1183
27.5°	1150
30°	1116
32.5°	1079
35°	1041
37.5°	1003
40°	963
42.5°	922
45°	881
47.5°	859
50°	802
52.5°	758
55°	708
57.5°	663
60°	613
62.5°	565
65°	515
67.5°	467
70°	415
72.5°	365
75°	316
77.5°	270
80°	226
82.5°	189
85°	162
87.5°	150
90°	156
92.5°	175
95°	202
97.5°	226
100°	250
102.5°	272
105°	293
107.5°	312
110°	339



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	373
115°	416
117.5°	469
120°	531
122.5°	657
125°	756
127.5°	760
130°	748
132.5°	736
135°	722
137.5°	707
140°	692
142.5°	673
145°	648
147.5°	626
150°	606
152.5°	588
155°	574
157.5°	562
160°	550
162.5°	538
165°	524
167.5°	509
170°	494
172.5°	481
175°	470
177.5°	463
180°	460

(END OF REPORT)