

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: P34027

Luminaire Tested: **144-24-P1S-L5/835**

Test Date: 04/20/15

**Test Information**

Test Method: LM-79-08  
Report Number: P34027  
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: 144-24-P1S-L5/835  
Description: SHAPER 144 FABRIQUE CONICAL PENDANT LUMINAIRE WITH SHANTUNG WHITE SHADE. THDi: 6.4%, PF:.99844; PREBURN: 12 HR, TOTAL OP TIME: 13 HR, STAB: 30 MIN  
Light Source: (45) 3500K EATON LEDS  
12451476, 12441843  
Ballast/Driver: (1) HATCH ELECTRONIC DRIVER  
LC25-1050Z-UNV-Q

**Summary**

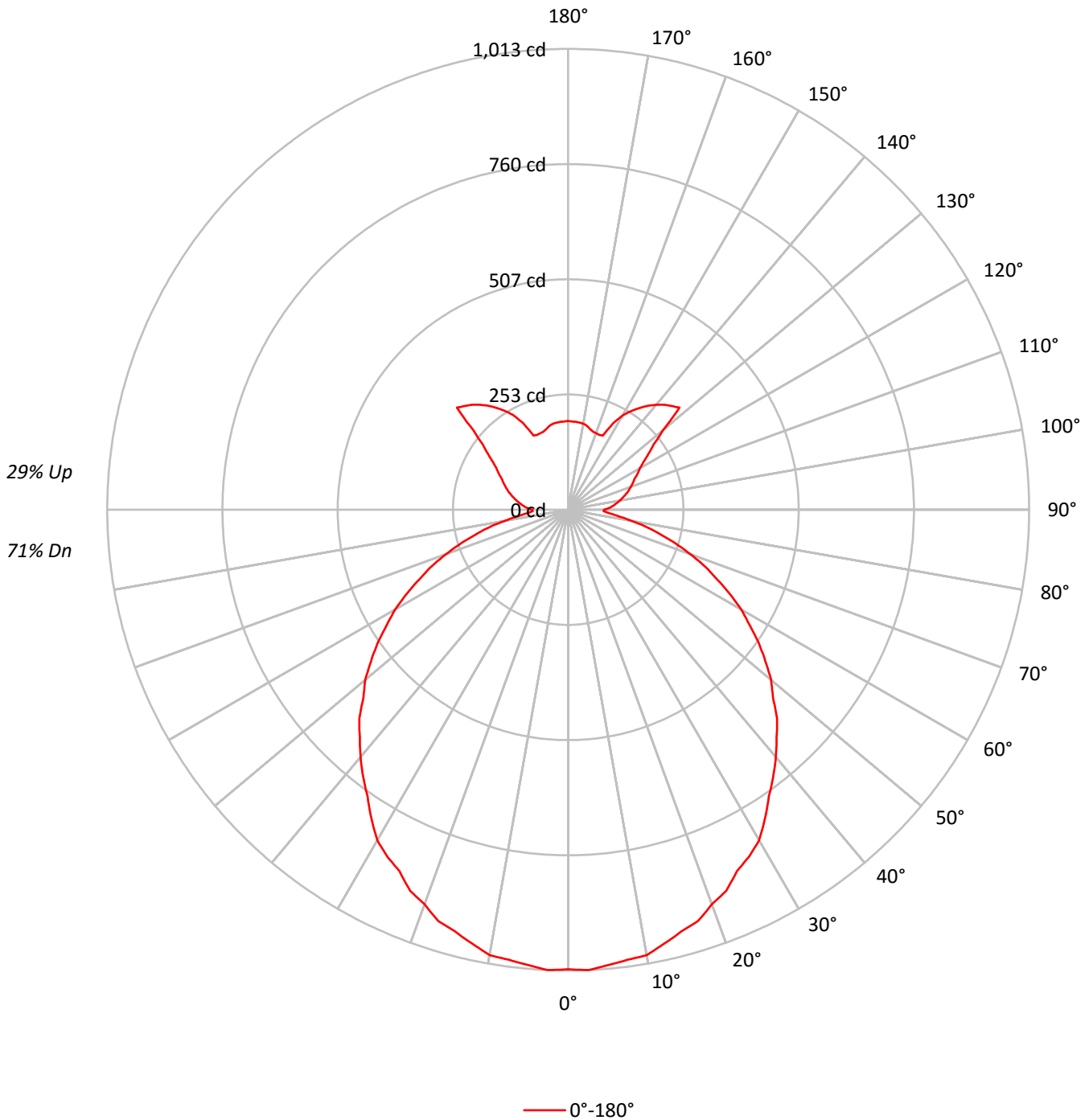
Lumens per Lamp: N/A  
Luminaire Lumens: 4080.3 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.35  
Luminous Opening: Vertical Cylinder (Dia: 2' x H: 0.67')  
CIE Type: Semi-Direct

Input Watts (W): 46.2  
Input Voltage (V): 120.0  
Input Current (Ain): 0.386  
Voltage Rise (V): NR  
Power Factor: 0.9984  
Total Harmonic Distortion (THDi): 6.4  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: HR  
Ambient Temperature (°C): 24.8  
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	112	112	112	112	106	106	106	106	95	95	95		85	85	85		75	75	75	71
1	102	97	93	89	96	92	88	85	82	79	77		74	71	69		66	64	62	58
2	92	84	78	72	87	80	74	69	72	67	63		64	60	57		57	54	52	48
3	84	74	66	60	79	70	63	57	63	57	53		56	52	48		50	47	44	40
4	77	65	57	50	72	62	54	48	56	50	45		50	45	41		45	41	37	34
5	71	58	49	43	66	55	47	41	50	43	38		45	40	35		40	36	33	30
6	65	52	44	37	61	50	42	36	45	38	34		41	35	31		37	32	29	26
7	60	47	39	33	57	45	37	32	41	34	30		37	32	27		33	29	25	23
8	56	43	35	29	53	41	33	28	37	31	26		34	28	24		31	26	23	20
9	52	39	31	26	49	38	30	25	34	28	24		31	26	22		28	24	20	18
10	49	36	28	23	46	35	27	23	32	26	21		29	24	20		26	22	19	17

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

	0°
0°	3461
5°	3333
10°	3217
15°	3058
20°	2915
25°	2768
30°	2666
35°	2480
40°	2342
45°	2208
50°	2060
55°	1901
60°	1734
65°	1528
70°	1318
75°	1076
80°	822
85°	611



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.6	2.3
10°-20°	271.4	6.7
20°-30°	406.7	10.0
30°-40°	483.5	11.8
40°-50°	498.7	12.2
50°-60°	456.4	11.2
60°-70°	358.1	8.8
70°-80°	223.9	5.5
80°-90°	106.7	2.6
90°-100°	107.4	2.6
100°-110°	138.3	3.4
110°-120°	161.3	4.0
120°-130°	196.2	4.8
130°-140°	242.7	5.9
140°-150°	171.6	4.2
150°-160°	91.2	2.2
160°-170°	52.1	1.3
170°-180°	18.4	0.5
0°-30°	773.7	19.0
0°-40°	1257.2	30.8
0°-60°	2212.3	54.2
0°-90°	2901.0	71.1
90°-120°	407.1	10.0
90°-150°	1017.6	24.9
90°-180°	1179.0	28.9
0°-180°	4080.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1010	
5°	1005	96
15°	960	271
25°	877	407
35°	769	483
45°	649	499
55°	511	456
65°	360	358
75°	210	224
85°	91	85
90°	79	45
95°	99	84
105°	131	138
115°	161	161
125°	216	196
135°	322	243
145°	273	172
155°	180	91
165°	184	52
175°	194	18
180°	195	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1010
2.5°	1013
5°	1005
7.5°	998
10°	994
12.5°	977
15°	960
17.5°	948
20°	923
22.5°	907
25°	877
27.5°	860
30°	839
32.5°	805
35°	769
37.5°	740
40°	710
42.5°	678
45°	649
47.5°	610
50°	582
52.5°	546
55°	511
57.5°	473
60°	439
62.5°	400
65°	360
67.5°	325
70°	285
72.5°	248
75°	210
77.5°	177
80°	142
82.5°	112
85°	91
87.5°	78
90°	79
92.5°	91
95°	99
97.5°	107
100°	115
102.5°	123
105°	131
107.5°	139
110°	146



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	154
115°	161
117.5°	172
120°	182
122.5°	197
125°	216
127.5°	238
130°	272
132.5°	332
135°	322
137.5°	313
140°	301
142.5°	288
145°	273
147.5°	257
150°	239
152.5°	214
155°	180
157.5°	178
160°	179
162.5°	180
165°	184
167.5°	189
170°	192
172.5°	193
175°	194
177.5°	194
180°	195

(END OF REPORT)