

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: P34030

Luminaire Tested: **145-24-P1S-L5/835**

Test Date: 04/20/15

**Test Information**

Test Method: LM-79-08  
Report Number: P34030  
Test Lab: INNOVATION CENTER-P3  
Test Date: 04/20/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 145-24-P1S-L5/835  
Description: SHAPER 145 FABRIQUE INVERTED CONICAL PENDANT LUMINAIRE WITH SHANTUNG WHITE SHADE. THDi: 6.64%, 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**

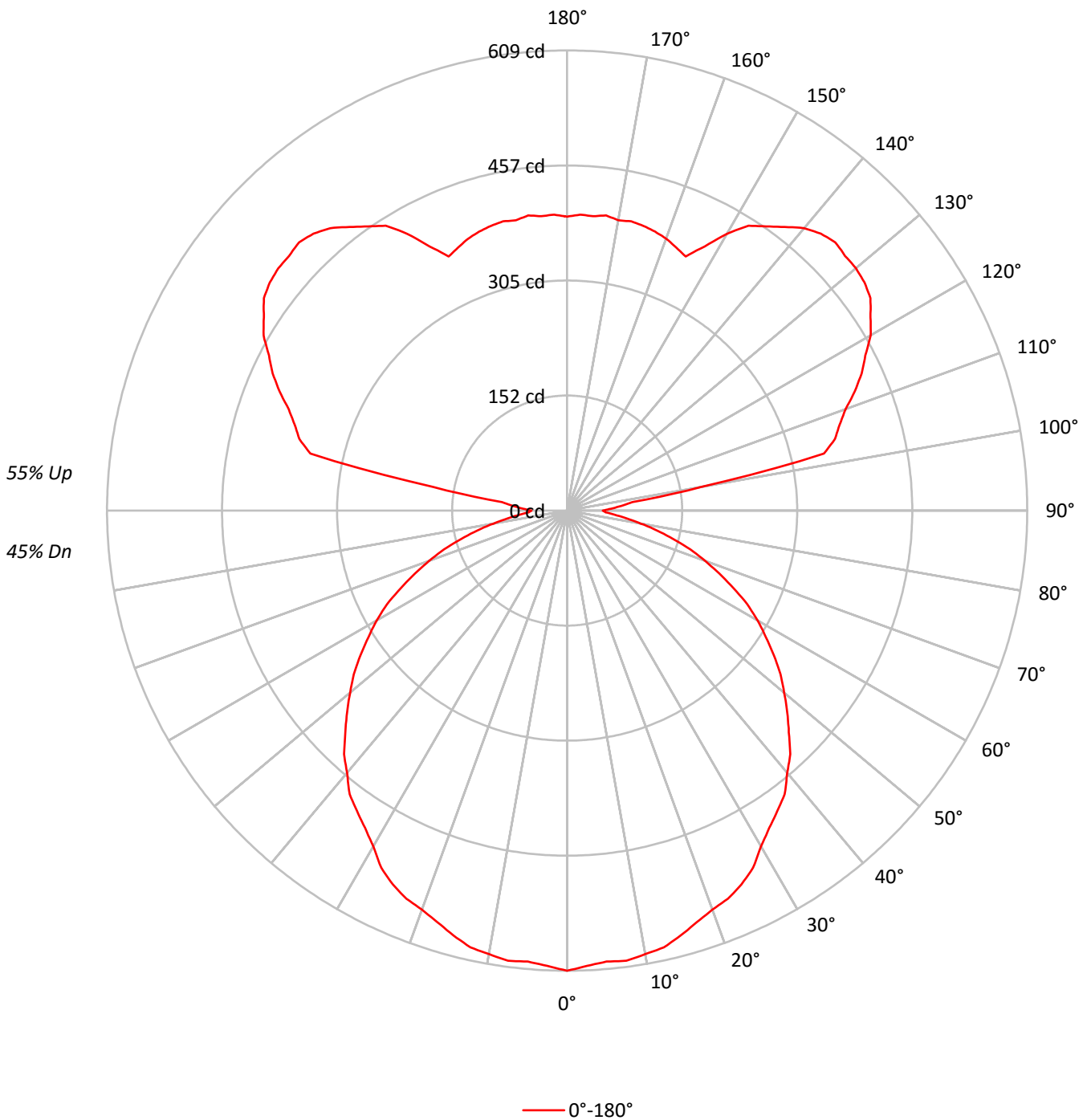
Lumens per Lamp: N/A  
Luminaire Lumens: 4179.1 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39  
Luminous Opening: Vertical Cylinder (Dia: 2' x H: 0.67')  
CIE Type: General Diffuse

Input Watts (W): 46.3  
Input Voltage (V): 120.0  
Input Current (Ain): 0.386  
Voltage Rise (V): NR  
Power Factor: 0.9984  
Total Harmonic Distortion (THDi): 6.64  
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	91	87	84	88	84	80	77	69	67	65	56	55	53	44	43	42	36
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	37	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	40	37	34	31	29	25
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25	21
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22	18
6	61	49	40	35	55	45	38	32	38	32	28	31	26	23	24	21	19	16
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17	14
8	52	40	32	27	48	37	30	25	31	25	21	25	21	18	20	17	15	12
9	48	36	29	24	44	33	27	22	28	23	19	23	19	16	19	16	13	11
10	45	33	26	21	41	31	24	20	26	21	17	22	17	15	17	14	12	10

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

	0°
0°	2087
5°	1986
10°	1929
15°	1854
20°	1775
25°	1723
30°	1630
35°	1564
40°	1494
45°	1412
50°	1327
55°	1242
60°	1149
65°	1031
70°	897
75°	743
80°	573
85°	423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.3	1.4
10°-20°	164.2	3.9
20°-30°	250.7	6.0
30°-40°	303.8	7.3
40°-50°	320.7	7.7
50°-60°	298.7	7.1
60°-70°	240.7	5.8
70°-80°	154.2	3.7
80°-90°	72.5	1.7
90°-100°	90.0	2.2
100°-110°	364.2	8.7
110°-120°	425.1	10.2
120°-130°	435.6	10.4
130°-140°	385.7	9.2
140°-150°	288.8	6.9
150°-160°	179.3	4.3
160°-170°	110.1	2.6
170°-180°	37.4	0.9
0°-30°	472.2	11.3
0°-40°	776.0	18.6
0°-60°	1395.4	33.4
0°-90°	1862.8	44.6
90°-120°	879.3	21.0
90°-150°	1989.4	47.6
90°-180°	2316.0	55.4
0°-180°	4179.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	609	
5°	599	57
15°	582	164
25°	546	251
35°	485	304
45°	415	321
55°	334	299
65°	243	241
75°	145	154
85°	63	59
90°	47	28
95°	72	76
105°	367	364
115°	430	425
125°	490	436
135°	502	386
145°	459	289
155°	371	179
165°	390	110
175°	391	37
180°	389	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	609
2.5°	603
5°	599
7.5°	601
10°	596
12.5°	592
15°	582
17.5°	571
20°	562
22.5°	556
25°	546
27.5°	533
30°	513
32.5°	498
35°	485
37.5°	473
40°	453
42.5°	437
45°	415
47.5°	395
50°	375
52.5°	356
55°	334
57.5°	312
60°	291
62.5°	269
65°	243
67.5°	218
70°	194
72.5°	171
75°	145
77.5°	122
80°	99
82.5°	79
85°	63
87.5°	51
90°	47
92.5°	58
95°	72
97.5°	87
100°	180
102.5°	348
105°	367
107.5°	378
110°	392



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	412
115°	430
117.5°	445
120°	464
122.5°	476
125°	490
127.5°	496
130°	499
132.5°	499
135°	502
137.5°	497
140°	488
142.5°	473
145°	459
147.5°	447
150°	423
152.5°	394
155°	371
157.5°	377
160°	383
162.5°	387
165°	390
167.5°	392
170°	390
172.5°	394
175°	391
177.5°	392
180°	389

(END OF REPORT)