

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: P34031

Luminaire Tested: **145-30-P1S-L5/835**

Test Date: 04/16/15

**Test Information**

Test Method: LM-79-08  
Report Number: P34031  
Test Lab: INNOVATION CENTER-P3  
Test Date: 04/16/15  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 145-30-P1S-L5/835  
Description: SHAPER 145 FABRIQUE INVERTED CONICAL PENDANT LUMINAIRE WITH SHANTUNG WHITE SHADE. THDi: 6.63%, 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**

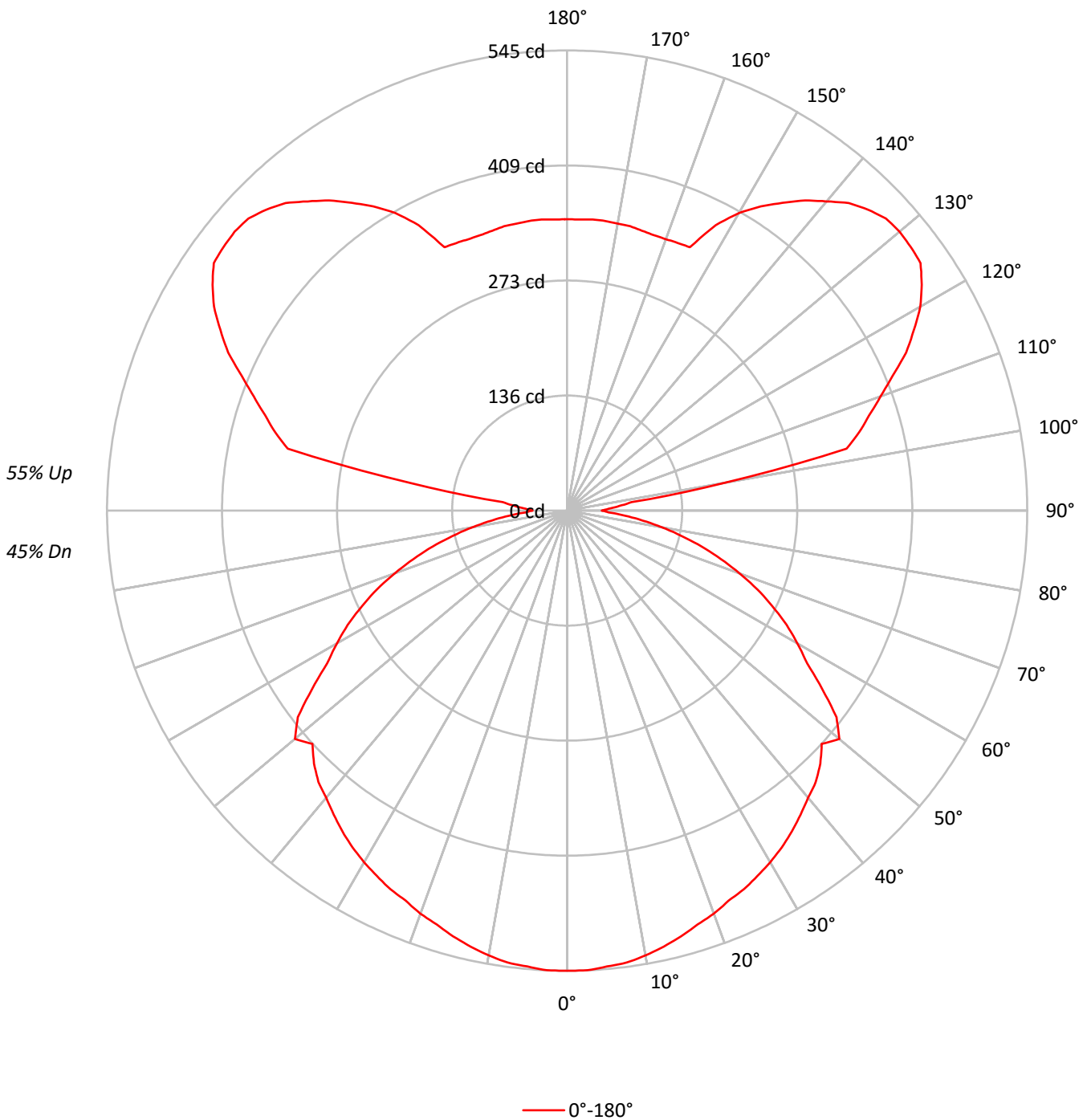
Lumens per Lamp: N/A  
Luminaire Lumens: 4193.4 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.49  
Luminous Opening: Vertical Cylinder (Dia: 2.5' x H: 0.83')  
CIE Type: General Diffuse

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): 6.63  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: HR  
Ambient Temperature (°C): 24.7  
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	96	91	87	83	88	84	80	77	69	67	64		56	55	53		44	43	42	36
2	87	79	72	67	79	72	67	62	60	56	52		49	46	43		38	36	34	30
3	79	69	61	55	72	63	57	51	53	48	43		43	39	36		33	31	29	24
4	72	61	52	46	65	56	48	43	46	41	37		38	34	30		30	27	24	20
5	66	54	45	39	60	49	42	36	41	35	31		34	29	26		26	23	21	17
6	60	48	40	34	55	44	37	31	37	31	27		30	26	22		24	21	18	15
7	56	43	35	29	51	40	32	27	33	28	23		27	23	20		22	18	16	13
8	52	39	31	26	47	36	29	24	30	25	21		25	20	17		20	17	14	12
9	48	35	28	23	44	33	26	21	28	22	18		23	18	15		18	15	13	10
10	45	32	25	20	41	30	23	19	25	20	16		21	17	14		17	14	11	9

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

	0°
0°	1195
5°	1150
10°	1108
15°	1064
20°	1027
25°	1000
30°	978
35°	958
40°	937
45°	923
50°	954
55°	878
60°	796
65°	728
70°	642
75°	541
80°	423
85°	297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	1.2
10°-20°	147.5	3.5
20°-30°	228.5	5.4
30°-40°	290.6	6.9
40°-50°	329.1	7.8
50°-60°	330.1	7.9
60°-70°	265.2	6.3
70°-80°	174.3	4.2
80°-90°	77.8	1.9
90°-100°	82.4	2.0
100°-110°	360.0	8.6
110°-120°	436.7	10.4
120°-130°	452.9	10.8
130°-140°	388.8	9.3
140°-150°	280.0	6.7
150°-160°	167.9	4.0
160°-170°	97.3	2.3
170°-180°	33.0	0.8
0°-30°	427.5	10.2
0°-40°	718.1	17.1
0°-60°	1377.3	32.8
0°-90°	1894.5	45.2
90°-120°	879.1	21.0
90°-150°	2000.8	47.7
90°-180°	2299.0	54.8
0°-180°	4193.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	545	
5°	542	52
15°	522	147
25°	495	228
35°	464	291
45°	424	329
55°	369	330
65°	268	265
75°	165	174
85°	69	65
90°	41	25
95°	62	70
105°	358	360
115°	443	437
125°	511	453
135°	504	389
145°	445	280
155°	344	168
165°	343	97
175°	346	33
180°	345	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	545
2.5°	545
5°	542
7.5°	540
10°	535
12.5°	529
15°	522
17.5°	514
20°	508
22.5°	500
25°	495
27.5°	488
30°	481
32.5°	473
35°	464
37.5°	454
40°	444
42.5°	436
45°	424
47.5°	409
50°	421
52.5°	402
55°	369
57.5°	337
60°	315
62.5°	293
65°	268
67.5°	244
70°	217
72.5°	191
75°	165
77.5°	139
80°	114
82.5°	90
85°	69
87.5°	49
90°	41
92.5°	49
95°	62
97.5°	77
100°	188
102.5°	339
105°	358
107.5°	375
110°	395



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	417
115°	443
117.5°	463
120°	483
122.5°	498
125°	511
127.5°	513
130°	514
132.5°	512
135°	504
137.5°	494
140°	478
142.5°	463
145°	445
147.5°	427
150°	407
152.5°	381
155°	344
157.5°	343
160°	342
162.5°	342
165°	343
167.5°	345
170°	345
172.5°	346
175°	346
177.5°	345
180°	345

(END OF REPORT)