

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: P34055

Luminaire Tested: **143-24-P1S-L5/835**

Test Date: 04/16/15

Test Information

Test Method: LM-79-08
Report Number: P34055
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: 143-24-P1S-L5/835
Description: SHAPER 143 FABRIQUE STEP PENDANT LUMINAIRE WITH SHANTUNG WHITE INNER SHADE AND EARTH DUST OUTER 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

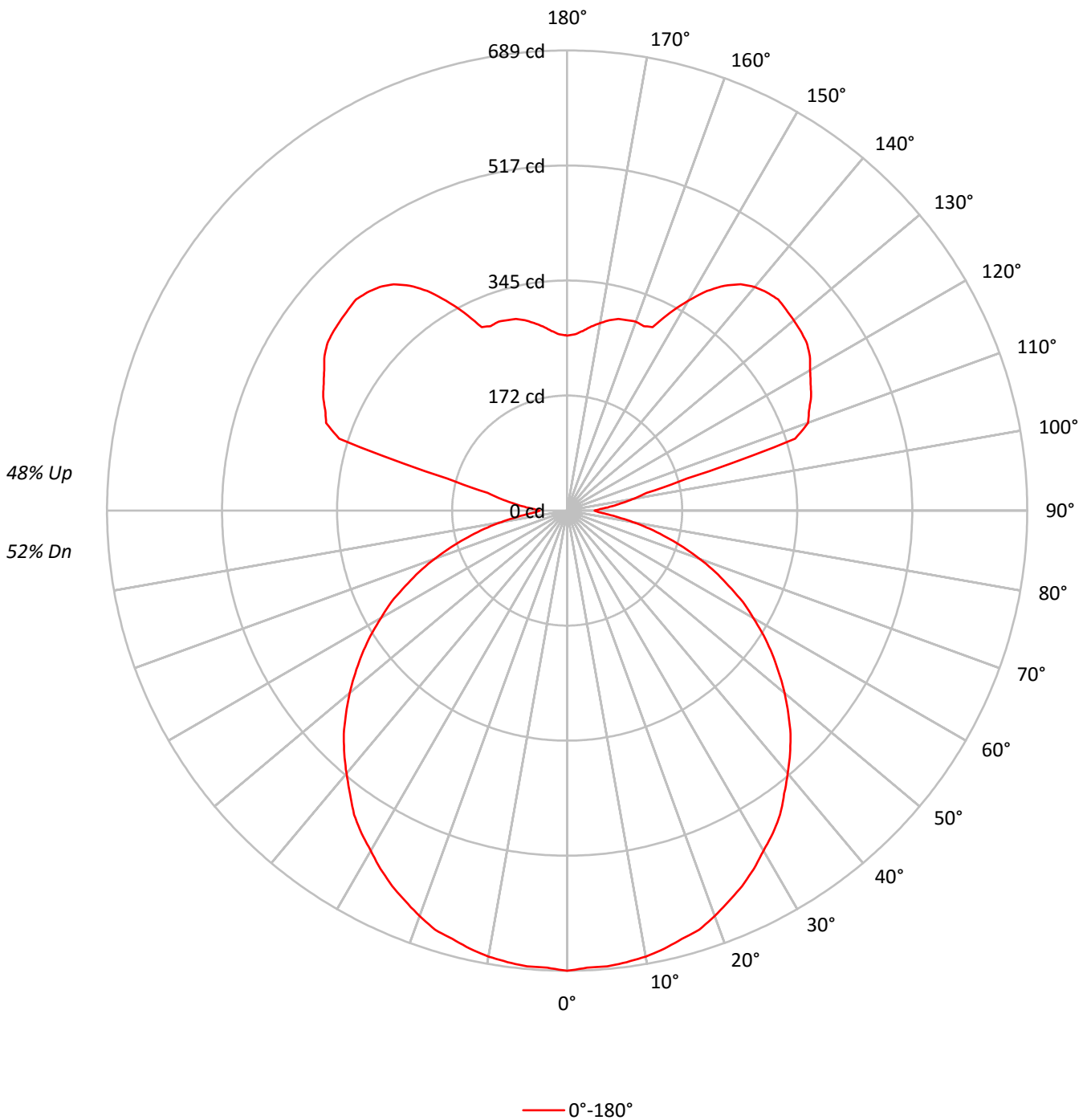
Lumens per Lamp: N/A
Luminaire Lumens: 4039.4 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 2' x H: 0.69')
CIE Type: General Diffuse

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				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	50	30	10	0
RCR																					
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52			
1	98	93	89	85	90	86	83	79	73	70	68	61	59	57	50	49	48	42			
2	89	81	74	69	82	75	69	65	64	59	56	53	50	47	44	41	39	35			
3	81	71	63	57	74	66	59	54	56	51	47	47	43	40	38	36	33	29			
4	74	62	54	48	68	58	51	45	49	44	39	41	37	34	34	31	28	25			
5	67	56	47	41	62	52	44	39	44	38	34	37	33	29	31	27	25	21			
6	62	50	41	35	57	46	39	33	40	34	29	33	29	25	28	24	22	19			
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	22	19	16			
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	20	17	15			
9	49	37	29	24	46	35	28	23	30	24	20	25	21	18	21	18	15	13			
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14	12			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2361
5°	2269
10°	2189
15°	2107
20°	2030
25°	1945
30°	1855
35°	1778
40°	1679
45°	1591
50°	1486
55°	1375
60°	1252
65°	1113
70°	957
75°	771
80°	570
85°	378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	1.6
10°-20°	187.8	4.6
20°-30°	285.6	7.1
30°-40°	346.8	8.6
40°-50°	364.1	9.0
50°-60°	335.0	8.3
60°-70°	264.9	6.6
70°-80°	163.3	4.0
80°-90°	68.7	1.7
90°-100°	72.1	1.8
100°-110°	238.7	5.9
110°-120°	398.8	9.9
120°-130°	390.4	9.7
130°-140°	343.7	8.5
140°-150°	256.6	6.4
150°-160°	147.6	3.7
160°-170°	83.9	2.1
170°-180°	26.3	0.7
0°-30°	538.6	13.3
0°-40°	885.3	21.9
0°-60°	1584.4	39.2
0°-90°	2081.3	51.5
90°-120°	709.6	17.6
90°-150°	1700.3	42.1
90°-180°	1958.0	48.5
0°-180°	4039.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	689	
5°	685	65
15°	664	188
25°	620	286
35°	556	347
45°	473	364
55°	375	335
65°	267	265
75°	154	163
85°	58	57
90°	41	24
95°	64	60
105°	186	239
115°	403	399
125°	438	390
135°	447	344
145°	411	257
155°	303	148
165°	297	84
175°	270	26
180°	262	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	689
2.5°	685
5°	685
7.5°	682
10°	678
12.5°	672
15°	664
17.5°	658
20°	646
22.5°	633
25°	620
27.5°	605
30°	588
32.5°	573
35°	556
37.5°	534
40°	514
42.5°	494
45°	473
47.5°	449
50°	425
52.5°	400
55°	375
57.5°	349
60°	322
62.5°	297
65°	267
67.5°	240
70°	211
72.5°	182
75°	154
77.5°	127
80°	101
82.5°	77
85°	58
87.5°	46
90°	41
92.5°	49
95°	64
97.5°	81
100°	100
102.5°	122
105°	186
107.5°	358
110°	384



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	392
115°	403
117.5°	411
120°	420
122.5°	431
125°	438
127.5°	441
130°	443
132.5°	445
135°	447
137.5°	443
140°	437
142.5°	427
145°	411
147.5°	390
150°	363
152.5°	334
155°	303
157.5°	299
160°	301
162.5°	299
165°	297
167.5°	292
170°	285
172.5°	278
175°	270
177.5°	264
180°	262

(END OF REPORT)