

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: P34028

Luminaire Tested: **144-30-P1S-L5/835**

Test Date: 04/17/15

Test Information

Test Method: LM-79-08
Report Number: P34028
Test Lab: INNOVATION CENTER-P2
Test Date: 04/17/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 144-30-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

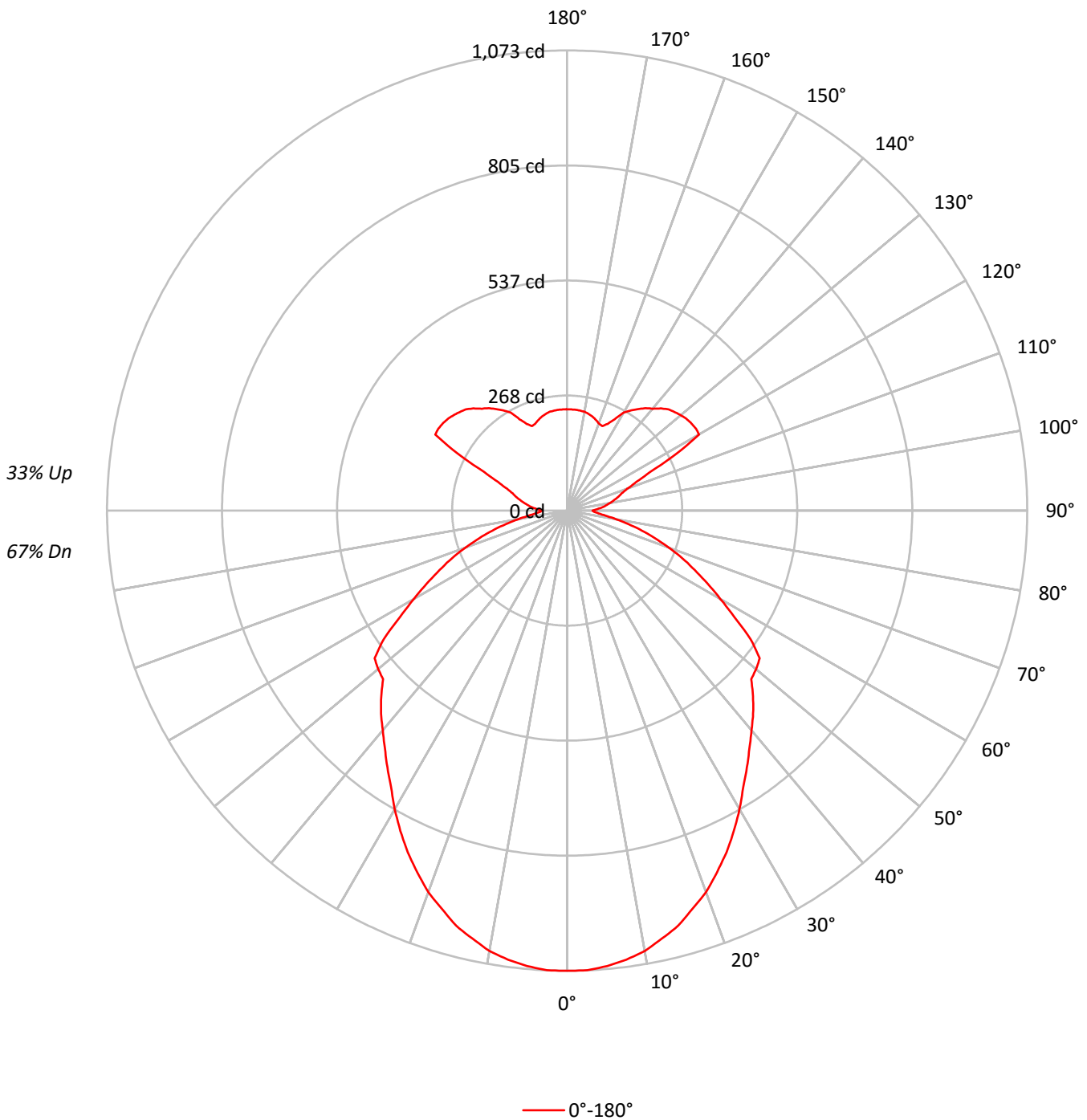
Lumens per Lamp: N/A
Luminaire Lumens: 4175.9 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.27
Luminous Opening: Vertical Cylinder (Dia: 2.5' x H: 0.83')
CIE Type: Semi-Direct

Input Watts (W): 46.3
Input Voltage (V): 120.0
Input Current (Ain): 0.387
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): 24.5
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	111	111	111	111	105	105	105	105	93	93	93		81	81	81		71	71	71	67
1	101	96	92	89	95	91	87	84	81	78	75		71	69	67		62	61	59	55
2	92	84	78	72	86	79	74	69	70	66	62		62	59	56		55	52	50	46
3	84	74	66	60	79	70	63	57	62	57	52		55	51	47		48	45	42	39
4	77	65	57	51	72	62	54	49	55	49	44		49	44	40		43	39	36	33
5	70	58	50	43	66	55	47	42	49	43	38		44	39	35		39	35	32	29
6	65	52	44	38	61	50	42	36	45	38	33		40	35	31		35	31	28	25
7	60	47	39	33	56	45	37	32	40	34	30		36	31	27		32	28	25	22
8	56	43	35	29	52	41	34	28	37	31	26		33	28	24		30	25	22	20
9	52	39	32	26	49	38	30	25	34	28	24		31	25	22		27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21		28	23	20		25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2353
5°	2262
10°	2161
15°	2042
20°	1914
25°	1775
30°	1635
35°	1509
40°	1412
45°	1335
50°	1303
55°	1243
60°	1044
65°	891
70°	746
75°	590
80°	430
85°	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	2.4
10°-20°	281.5	6.7
20°-30°	404.2	9.7
30°-40°	458.4	11.0
40°-50°	475.0	11.4
50°-60°	456.9	10.9
60°-70°	326.7	7.8
70°-80°	191.5	4.6
80°-90°	85.2	2.0
90°-100°	87.6	2.1
100°-110°	130.3	3.1
110°-120°	229.2	5.5
120°-130°	316.7	7.6
130°-140°	256.9	6.2
140°-150°	181.8	4.4
150°-160°	106.7	2.6
160°-170°	63.9	1.5
170°-180°	22.5	0.5
0°-30°	786.7	18.8
0°-40°	1245.1	29.8
0°-60°	2177.0	52.1
0°-90°	2780.4	66.6
90°-120°	447.2	10.7
90°-150°	1202.5	28.8
90°-180°	1396.0	33.4
0°-180°	4175.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1073	
5°	1066	101
15°	1002	282
25°	879	404
35°	731	458
45°	613	475
55°	522	457
65°	328	327
75°	180	191
85°	73	68
90°	59	34
95°	81	70
105°	123	130
115°	213	229
125°	354	317
135°	334	257
145°	289	182
155°	223	107
165°	227	64
175°	236	22
180°	236	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1073
2.5°	1073
5°	1066
7.5°	1056
10°	1043
12.5°	1022
15°	1002
17.5°	973
20°	947
22.5°	913
25°	879
27.5°	842
30°	804
32.5°	764
35°	731
37.5°	698
40°	669
42.5°	642
45°	613
47.5°	582
50°	575
52.5°	566
55°	522
57.5°	462
60°	413
62.5°	369
65°	328
67.5°	291
70°	252
72.5°	215
75°	180
77.5°	147
80°	116
82.5°	89
85°	73
87.5°	63
90°	59
92.5°	69
95°	81
97.5°	91
100°	102
102.5°	112
105°	123
107.5°	133
110°	149



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	175
115°	213
117.5°	289
120°	355
122.5°	356
125°	354
127.5°	351
130°	346
132.5°	340
135°	334
137.5°	323
140°	310
142.5°	301
145°	289
147.5°	277
150°	264
152.5°	240
155°	223
157.5°	213
160°	216
162.5°	222
165°	227
167.5°	231
170°	234
172.5°	235
175°	236
177.5°	236
180°	236

(END OF REPORT)