

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: P394027

Luminaire Tested: **146-52-L5-830**

Issue Date: 4/2/2020

Test Information

Test Method: LM-79-08
Report Number: P394027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33614)
Test Lab: INNOVATION CENTER
Issue Date: 4/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 146-52-L5-830
Description: SHAPER 106 FABRIQUE ROUND CYLINDER PENDANT
52 INCH HEIGHT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

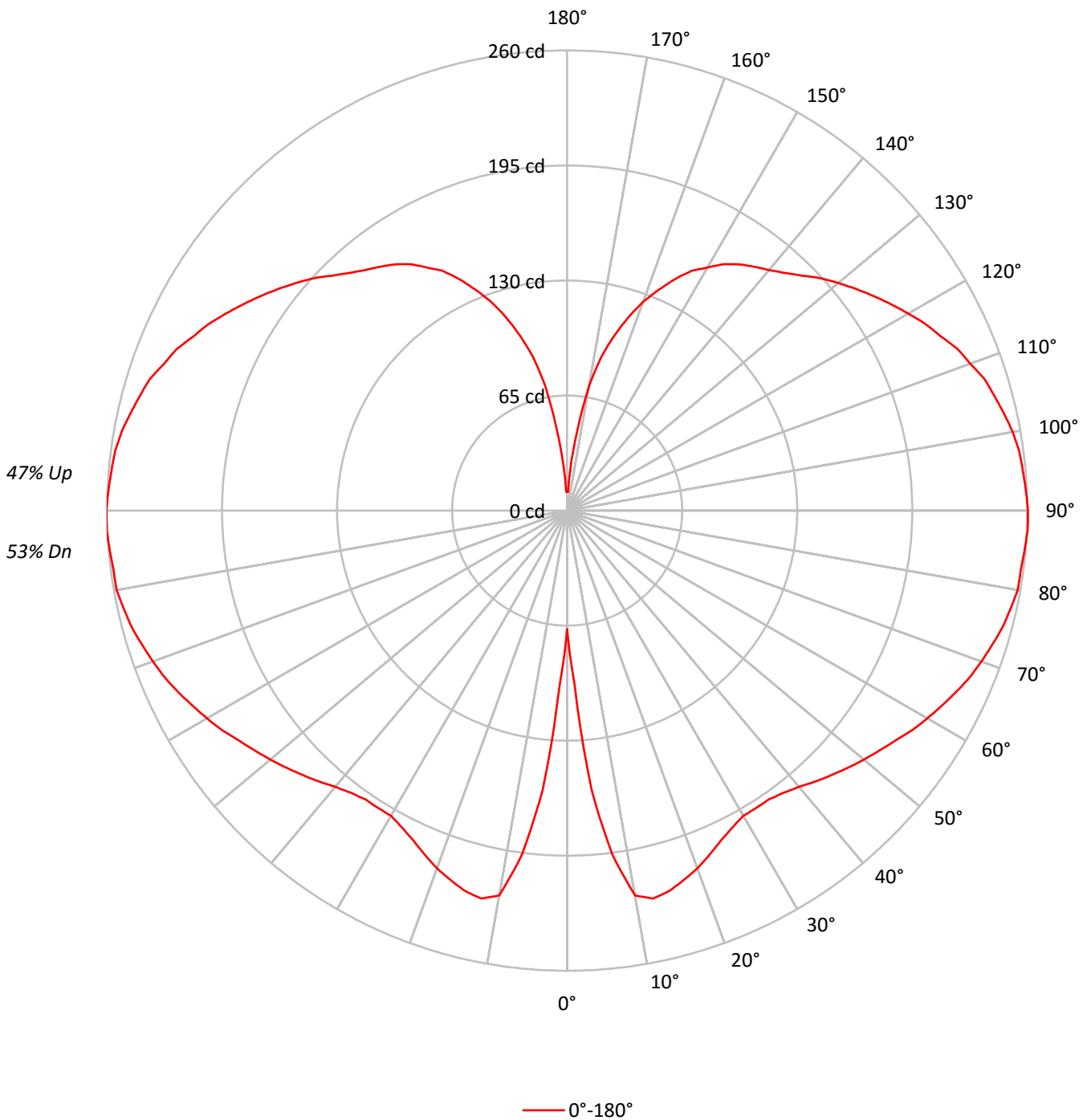
Lumens per Lamp: N/A
Luminaire Lumens: 2780.8 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 3.25 / 3.25 / 3.15
Luminous Opening: Vertical Cylinder (Dia: 0.83' x H: 4.33')
CIE Type: General Diffuse

Input Watts (W): 39.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53
1	93	87	81	76	86	80	75	70	67	63	59	55	52	49	44	41	39	34
2	83	73	65	58	76	67	60	54	56	50	45	45	41	37	36	33	30	25
3	75	63	54	46	68	58	50	43	48	41	36	39	34	30	30	27	23	19
4	68	55	45	38	62	50	42	35	42	35	30	34	28	24	26	22	19	15
5	62	48	39	32	56	44	36	29	37	30	25	30	24	20	23	19	16	12
6	57	43	34	27	52	39	31	25	33	26	21	27	21	17	21	17	13	10
7	52	38	30	23	48	35	27	22	30	23	18	24	19	15	19	15	12	9
8	48	35	26	20	44	32	24	19	27	20	16	22	17	13	17	13	10	8
9	45	32	23	18	41	29	22	17	24	18	14	20	15	12	16	12	9	7
10	42	29	21	16	38	27	19	15	22	17	12	18	14	10	15	11	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1322
5°	1988
10°	2041
15°	1640
20°	1325
25°	1096
30°	941
35°	851
40°	801
45°	774
50°	756
55°	745
60°	744
65°	745
70°	749
75°	755
80°	762
85°	766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.8	0.6
10°-20°	62.5	2.2
20°-30°	95.3	3.4
30°-40°	125.8	4.5
40°-50°	163.8	5.9
50°-60°	203.6	7.3
60°-70°	240.7	8.7
70°-80°	269.0	9.7
80°-90°	283.1	10.2
90°-100°	281.9	10.1
100°-110°	264.3	9.5
110°-120°	231.5	8.3
120°-130°	189.8	6.8
130°-140°	146.0	5.3
140°-150°	106.5	3.8
150°-160°	66.9	2.4
160°-170°	29.3	1.1
170°-180°	4.0	0.1
0°-30°	174.6	6.3
0°-40°	300.4	10.8
0°-60°	667.8	24.0
0°-90°	1460.5	52.5
90°-120°	777.8	28.0
90°-150°	1220.0	43.9
90°-180°	1320.0	47.5
0°-180°	2780.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	67	
5°	158	17
15°	223	63
25°	206	95
35°	199	126
45°	211	164
55°	226	204
65°	242	241
75°	255	269
85°	259	212
90°	260	143
95°	258	211
105°	250	264
115°	233	232
125°	211	190
135°	188	146
145°	170	106
155°	144	67
165°	102	29
175°	28	4
180°	11	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	67.0
2.5°	99.1
5°	158.5
7.5°	196.2
10°	220.8
12.5°	224.5
15°	222.6
17.5°	218.9
20°	215.1
22.5°	210.4
25°	205.7
27.5°	201.9
30°	199.1
32.5°	199.1
35°	199.1
37.5°	200.9
40°	203.8
42.5°	207.6
45°	211.3
47.5°	215.1
50°	218.9
52.5°	222.6
55°	226.4
57.5°	231.1
60°	234.9
62.5°	238.7
65°	242.5
67.5°	246.2
70°	249.1
72.5°	251.9
75°	254.7
77.5°	256.6
80°	258.5
82.5°	258.5
85°	259.4
87.5°	260.4
90°	260.4
92.5°	259.4
95°	258.5
97.5°	257.6
100°	255.7
102.5°	252.8
105°	250.0
107.5°	247.2
110°	242.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	238.7
115°	233.0
117.5°	228.3
120°	222.6
122.5°	217.0
125°	211.3
127.5°	205.7
130°	200.0
132.5°	194.3
135°	187.7
137.5°	182.1
140°	177.4
142.5°	173.6
145°	169.8
147.5°	165.1
150°	158.5
152.5°	152.8
155°	144.3
157.5°	134.9
160°	125.5
162.5°	114.2
165°	101.9
167.5°	88.7
170°	71.7
172.5°	48.1
175°	28.3
177.5°	10.4
180°	11.3

(END OF REPORT)