

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: P26027

Luminaire Tested: **148-40-P1S-L4/835**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P26027
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 148-40-P1S-L4/835
Description: SHAPER 148 FABRIQUE TALL INVERTED CONICAL PENDANT LUMINAIRE
Light Source: (81) CKTS LEDS
12441843
Ballast/Driver: [1] PHILIPS ELECTRONIC DRIVER
LEDINTA2000C24DOM

Summary

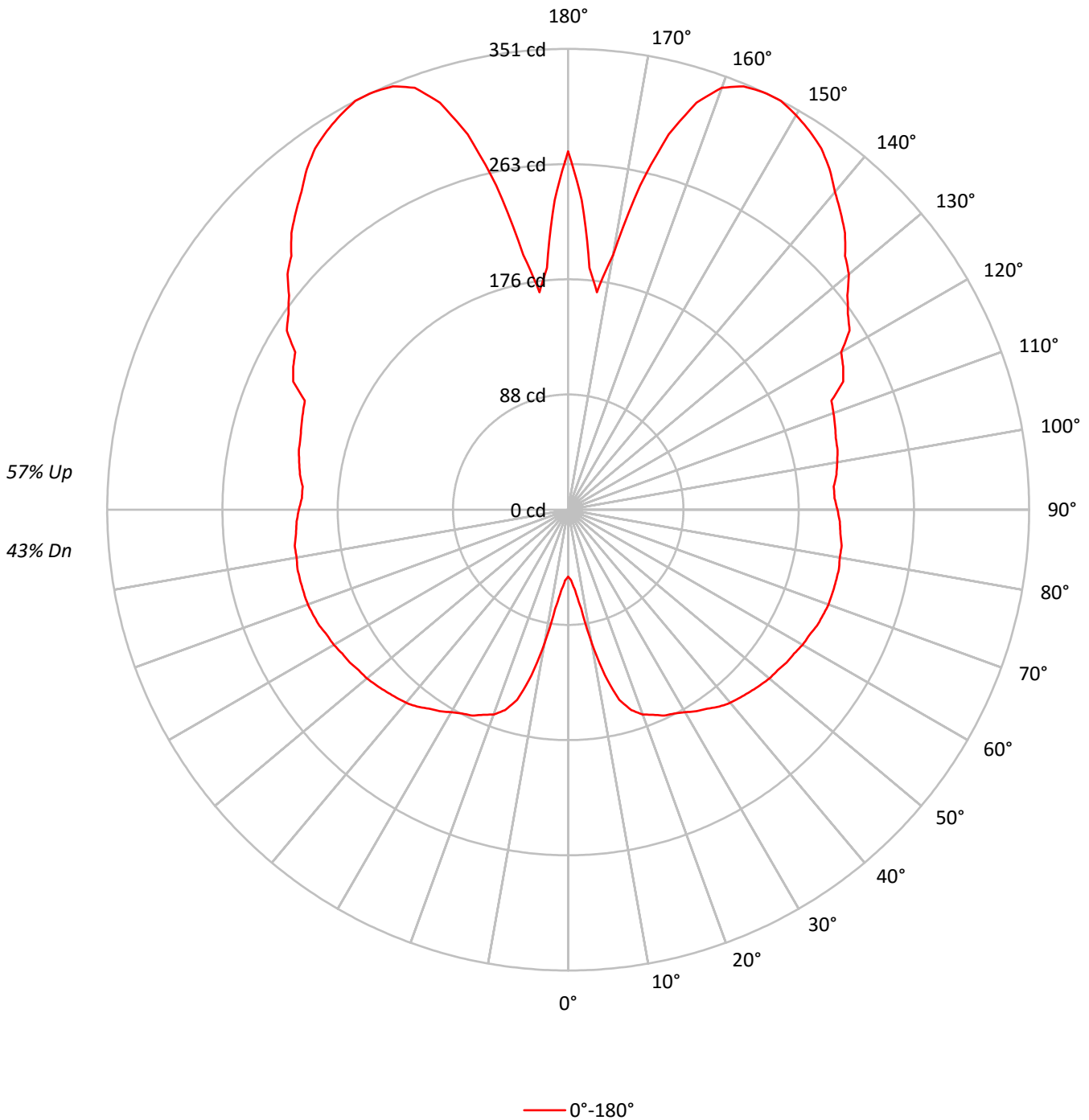
Lumens per Lamp: N/A
Luminaire Lumens: 2844.4 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 3.48 / 3.48 / 3.31
Luminous Opening: Vertical Cylinder (Dia: 1.42' x H: 3.33')
CIE Type: General Diffuse

Input Watts (W): 30.6
Input Voltage (V): 119.97
Input Current (Ain): 0.25676
Voltage Rise (V): NR
Power Factor: 0.9982
Total Harmonic Distortion (THDi): 8.28
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43
1	92	86	81	76	84	78	74	70	64	60	57	50	48	45	38	36	34	28
2	82	73	65	59	74	66	60	54	54	49	44	42	38	35	31	28	26	21
3	74	63	54	47	67	57	49	43	46	40	35	36	31	28	26	23	20	16
4	67	55	46	39	61	50	42	36	40	34	29	31	27	23	23	19	17	12
5	61	48	39	32	55	44	36	30	35	29	24	28	23	19	20	17	14	10
6	56	43	34	28	51	39	31	25	31	25	21	25	20	16	18	14	12	8
7	52	38	30	24	47	35	27	22	28	22	18	22	17	14	16	13	10	7
8	48	35	26	21	43	31	24	19	26	20	15	20	15	12	15	11	9	6
9	44	31	23	18	40	29	21	16	23	17	13	18	14	11	14	10	8	5
10	41	29	21	16	37	26	19	14	21	16	12	17	12	9	12	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	348
5°	337
10°	467
15°	588
20°	577
25°	544
30°	514
35°	498
40°	487
45°	474
50°	465
55°	458
60°	455
65°	455
70°	456
75°	457
80°	459
85°	462



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.3
10°-20°	41.5	1.5
20°-30°	79.9	2.8
30°-40°	116.5	4.1
40°-50°	151.9	5.3
50°-60°	182.0	6.4
60°-70°	207.1	7.3
70°-80°	223.1	7.8
80°-90°	227.1	8.0
90°-100°	223.3	7.8
100°-110°	223.6	7.9
110°-120°	226.0	7.9
120°-130°	233.3	8.2
130°-140°	229.7	8.1
140°-150°	209.5	7.4
150°-160°	161.5	5.7
160°-170°	83.1	2.9
170°-180°	18.1	0.6
0°-30°	128.6	4.5
0°-40°	245.1	8.6
0°-60°	579.0	20.4
0°-90°	1236.2	43.5
90°-120°	672.8	23.7
90°-150°	1345.4	47.3
90°-180°	1608.0	56.5
0°-180°	2844.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	51	
5°	62	7
15°	150	42
25°	173	80
35°	185	117
45°	196	152
55°	203	182
65°	209	207
75°	211	223
85°	208	171
90°	205	112
95°	203	167
105°	211	224
115°	231	226
125°	260	233
135°	298	230
145°	336	210
155°	351	162
165°	296	83
175°	185	18
180°	273	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	51
2.5°	54
5°	62
7.5°	76
10°	103
12.5°	129
15°	150
17.5°	160
20°	166
22.5°	169
25°	173
27.5°	175
30°	178
32.5°	182
35°	185
37.5°	189
40°	192
42.5°	194
45°	196
47.5°	198
50°	200
52.5°	201
55°	203
57.5°	204
60°	206
62.5°	207
65°	209
67.5°	210
70°	211
72.5°	211
75°	211
77.5°	211
80°	210
82.5°	210
85°	208
87.5°	207
90°	205
92.5°	203
95°	203
97.5°	206
100°	208
102.5°	210
105°	211
107.5°	213
110°	215



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	217
115°	231
117.5°	236
120°	240
122.5°	254
125°	260
127.5°	268
130°	279
132.5°	286
135°	298
137.5°	307
140°	316
142.5°	327
145°	336
147.5°	342
150°	347
152.5°	351
155°	351
157.5°	349
160°	342
162.5°	325
165°	296
167.5°	253
170°	197
172.5°	167
175°	185
177.5°	236
180°	273

(END OF REPORT)