

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: P26028

Luminaire Tested: **148-28-P1S-L3/835**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P26028
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 148-28-P1S-L3/835
Description: SHAPER 148 FABRIQUE TALL INVERTED CONICAL PENDANT LUMINAIRE
Light Source: (54) CKTS LEDS
12499797
Ballast/Driver: [1] PHILIPS ELECTRONIC DRIVER
LEDINTA2000C24DOM

Summary

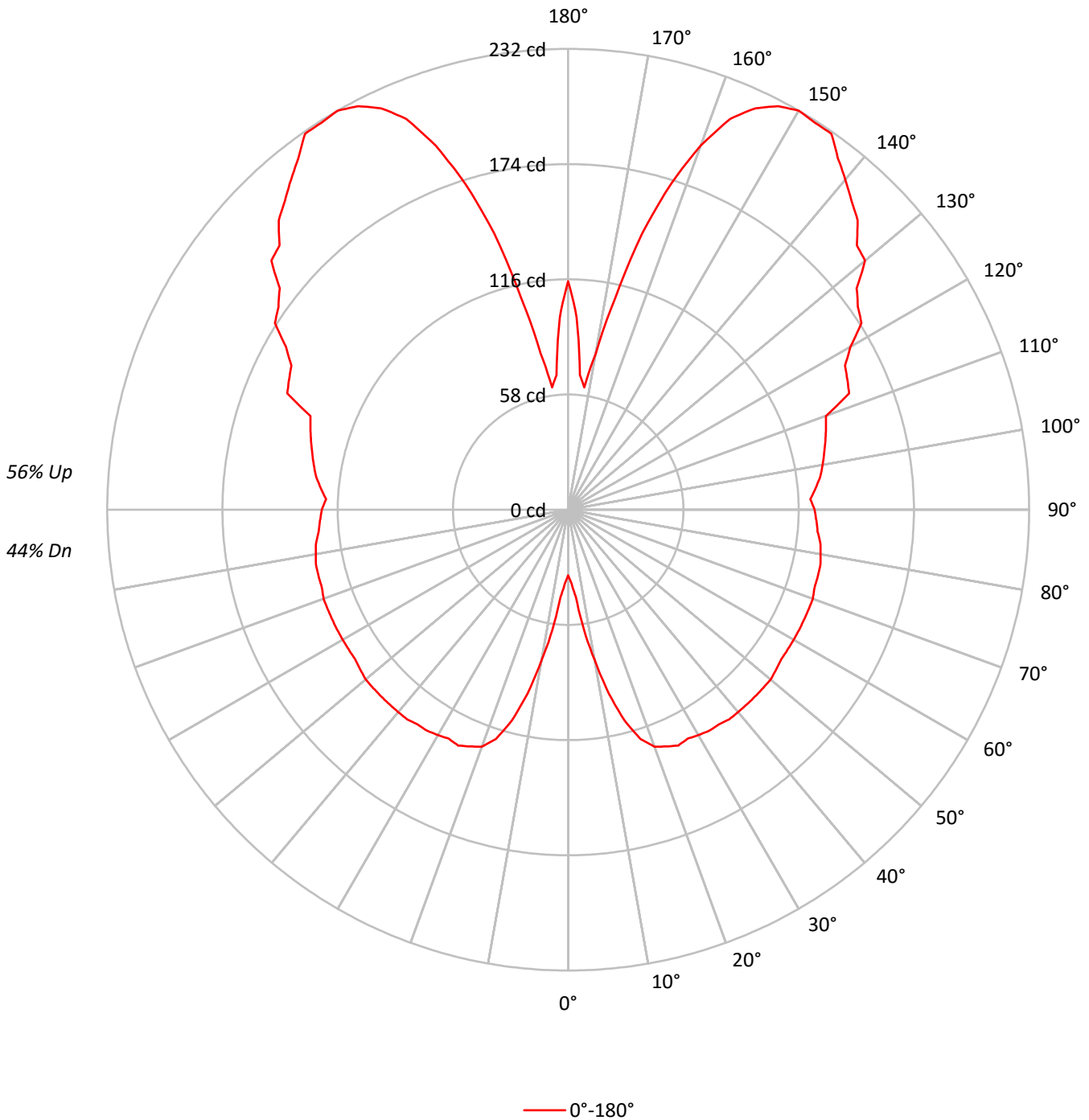
Lumens per Lamp: N/A
Luminaire Lumens: 1849.6 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 3.45 / 3.45 / 3.26
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 2.33')
CIE Type: General Diffuse

Input Watts (W): 21.3
Input Voltage (V): 120.01
Input Current (Ain): 0.17911
Voltage Rise (V): NR
Power Factor: 0.9953
Total Harmonic Distortion (THDi): 8.98
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	44
1	93	87	82	77	84	79	74	70	64	61	58	51	48	46	39	37	35	29
2	83	74	66	60	75	67	60	55	54	49	45	43	39	36	32	29	27	22
3	75	64	55	48	67	58	50	44	47	41	36	37	32	29	27	24	21	17
4	68	56	47	40	61	50	43	36	41	35	30	32	27	24	24	20	17	13
5	62	49	40	33	56	44	36	30	36	30	25	28	23	20	21	17	15	11
6	57	43	35	28	51	40	32	26	32	26	21	25	20	17	19	15	12	9
7	52	39	30	24	47	35	28	22	29	23	18	23	18	14	17	13	11	8
8	48	35	27	21	44	32	25	19	26	20	16	21	16	13	15	12	9	7
9	45	32	24	18	40	29	22	17	24	18	14	19	14	11	14	11	8	6
10	42	29	21	16	38	26	20	15	22	16	12	17	13	10	13	10	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	332
5°	364
10°	543
15°	682
20°	706
25°	665
30°	617
35°	583
40°	557
45°	534
50°	516
55°	496
60°	488
65°	483
70°	482
75°	481
80°	484
85°	484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.3
10°-20°	31.1	1.7
20°-30°	60.1	3.2
30°-40°	83.1	4.5
40°-50°	103.0	5.6
50°-60°	118.0	6.4
60°-70°	130.0	7.0
70°-80°	137.5	7.4
80°-90°	137.9	7.5
90°-100°	136.9	7.4
100°-110°	141.7	7.7
110°-120°	152.7	8.3
120°-130°	160.3	8.7
130°-140°	158.5	8.6
140°-150°	142.6	7.7
150°-160°	102.1	5.5
160°-170°	41.6	2.2
170°-180°	7.0	0.4
0°-30°	96.5	5.2
0°-40°	179.6	9.7
0°-60°	400.6	21.7
0°-90°	806.0	43.6
90°-120°	431.4	23.3
90°-150°	892.8	48.3
90°-180°	1044.0	56.4
0°-180°	1849.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	33	
5°	44	5
15°	110	31
25°	131	60
35°	132	83
45°	133	103
55°	131	118
65°	131	130
75°	130	138
85°	126	104
90°	124	68
95°	125	103
105°	134	142
115°	155	153
125°	178	160
135°	206	159
145°	231	143
155°	223	102
165°	144	42
175°	68	7
180°	115	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	33
2.5°	37
5°	44
7.5°	61
10°	77
12.5°	95
15°	110
17.5°	121
20°	127
22.5°	129
25°	131
27.5°	130
30°	131
32.5°	132
35°	132
37.5°	133
40°	133
42.5°	133
45°	133
47.5°	133
50°	133
52.5°	132
55°	131
57.5°	131
60°	131
62.5°	131
65°	131
67.5°	131
70°	131
72.5°	130
75°	130
77.5°	130
80°	129
82.5°	128
85°	126
87.5°	125
90°	124
92.5°	122
95°	125
97.5°	128
100°	130
102.5°	132
105°	134
107.5°	136
110°	138

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	153
115°	155
117.5°	157
120°	164
122.5°	175
125°	178
127.5°	183
130°	195
132.5°	197
135°	206
137.5°	211
140°	217
142.5°	223
145°	231
147.5°	231
150°	232
152.5°	229
155°	223
157.5°	213
160°	195
162.5°	172
165°	144
167.5°	109
170°	80
172.5°	62
175°	68
177.5°	97
180°	115

(END OF REPORT)