

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: P34348

Luminaire Tested: **147-40-P1S-L4/835-UNV-NA-54**

Test Date: 08/10/15

Test Information

Test Method: LM-79-08
Report Number: P34348
Test Lab: INNOVATION CENTER-P3
Test Date: 08/10/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 147-40-P1S-L4/835-UNV-NA-54
Description: SHAPER 147 SERIES 40" FABRIQUE SQUARE CYLINDER PENDANT LUMINAIRE.
Light Source: 27 CKTS 3500K LEDS
12441843
Ballast/Driver: (1) PHILIPS ELECTRONIC DRIVER
LEDINTA2000C24DOM

Summary

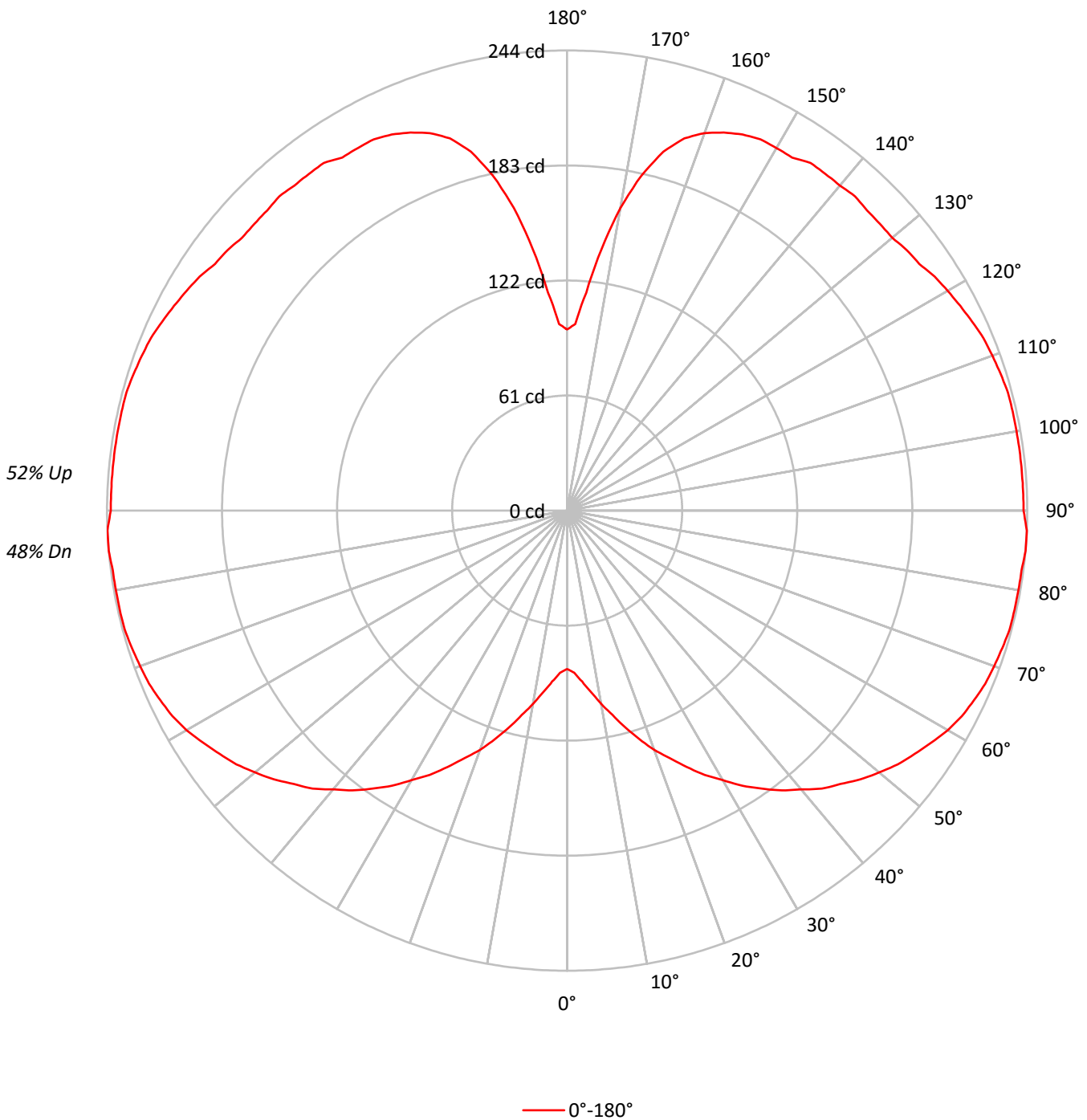
Lumens per Lamp: N/A
Luminaire Lumens: 2790.4 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 2.87 / 2.87 / 2.84
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 0.83' x H: 3.33')
CIE Type: General Diffuse

Input Watts (W): 31.1
Input Voltage (V): 120.0
Input Current (Ain): 0.260
Voltage Rise (V): NR
Power Factor: 0.9984
Total Harmonic Distortion (THDi): 8.50
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT



TEST NUMBER: P34348
CATALOG NUMBER: 147-40-P1S-L4/835-UNV-NA-54

Luminous Intensity Polar Plot





TEST NUMBER: P34348

CATALOG NUMBER: 147-40-P1S-L4/835-UNV-NA-54

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	93	86	80	75	84	79	74	69	65	61	58	52	49	47	41	38	36	31
2	82	73	64	58	75	66	59	53	54	49	44	43	39	35	33	30	27	22
3	74	62	53	46	67	57	49	42	46	40	35	37	32	28	28	24	21	16
4	67	54	45	37	61	49	41	34	40	34	28	32	27	22	24	20	17	13
5	61	47	38	31	55	43	35	29	35	29	24	28	23	19	21	17	14	10
6	56	42	33	26	50	38	30	24	31	25	20	25	20	16	19	15	12	8
7	51	38	29	22	46	34	26	21	28	22	17	22	17	13	17	13	10	7
8	47	34	25	19	43	31	23	18	25	19	15	20	15	12	15	11	9	6
9	44	31	22	17	40	28	21	16	23	17	13	18	14	10	14	10	7	5
10	41	28	20	15	37	26	18	14	21	15	11	17	12	9	13	9	7	4

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1302
5°	1049
10°	960
15°	922
20°	907
25°	895
30°	892
35°	896
40°	896
45°	899
50°	903
55°	906
60°	911
65°	911
70°	911
75°	914
80°	916
85°	929



TEST NUMBER: P34348

CATALOG NUMBER: 147-40-P1S-L4/835-UNV-NA-54

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.1	0.3
10°-20°	34.2	1.2
20°-30°	69.8	2.5
30°-40°	113.3	4.1
40°-50°	159.1	5.7
50°-60°	201.9	7.2
60°-70°	236.0	8.5
70°-80°	256.6	9.2
80°-90°	265.5	9.5
90°-100°	264.0	9.5
100°-110°	255.5	9.2
110°-120°	235.2	8.4
120°-130°	205.3	7.4
130°-140°	174.4	6.3
140°-150°	140.7	5.0
150°-160°	101.6	3.6
160°-170°	55.6	2.0
170°-180°	12.6	0.5
0°-30°	113.2	4.1
0°-40°	226.4	8.1
0°-60°	587.4	21.1
0°-90°	1345.5	48.2
90°-120°	754.7	27.0
90°-150°	1275.1	45.7
90°-180°	1445.0	51.8
0°-180°	2790.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	84	
5°	91	9
15°	119	34
25°	150	70
35°	180	113
45°	205	159
55°	225	202
65°	238	236
75°	243	257
85°	244	199
90°	242	133
95°	242	198
105°	242	255
115°	237	235
125°	228	205
135°	225	174
145°	225	141
155°	220	102
165°	197	56
175°	116	13
180°	96	



TEST NUMBER: P34348

CATALOG NUMBER: 147-40-P1S-L4/835-UNV-NA-54

CANDELA DISTRIBUTION (FULL):

	0°
0°	84
2.5°	86
5°	91
7.5°	97
10°	104
12.5°	111
15°	119
17.5°	127
20°	135
22.5°	142
25°	150
27.5°	158
30°	165
32.5°	173
35°	180
37.5°	187
40°	193
42.5°	200
45°	205
47.5°	211
50°	216
52.5°	221
55°	225
57.5°	229
60°	233
62.5°	236
65°	238
67.5°	240
70°	241
72.5°	242
75°	243
77.5°	243
80°	243
82.5°	243
85°	244
87.5°	244
90°	242
92.5°	242
95°	242
97.5°	242
100°	242
102.5°	242
105°	242
107.5°	241
110°	240



TEST NUMBER: P34348

CATALOG NUMBER: 147-40-P1S-L4/835-UNV-NA-54

CANDELA DISTRIBUTION (continued):

	0°
112.5°	239
115°	237
117.5°	235
120°	233
122.5°	231
125°	228
127.5°	227
130°	225
132.5°	225
135°	225
137.5°	226
140°	225
142.5°	225
145°	225
147.5°	222
150°	222
152.5°	222
155°	220
157.5°	217
160°	213
162.5°	207
165°	197
167.5°	182
170°	163
172.5°	140
175°	116
177.5°	99
180°	96

(END OF REPORT)