

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: P34343

Luminaire Tested: **142-42-P1S-L12/835-UNV-NA-36**

Test Date: 08/07/15

Test Information

Test Method: LM-79-08
Report Number: P34343
Test Lab: INNOVATION CENTER-P3
Test Date: 08/07/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 142-42-P15-L12/835-UNV-NA-36
Description: SHAPER 142 SERIES 42" FABRIQUE DRUM PENDANT LUMINAIRE
Light Source: 28 CKTS 3500K LEDS
12495335
Ballast/Driver: (2) HATCH ELECTRONIC DRIVER
LC60-2400Z-UNV-F

Summary

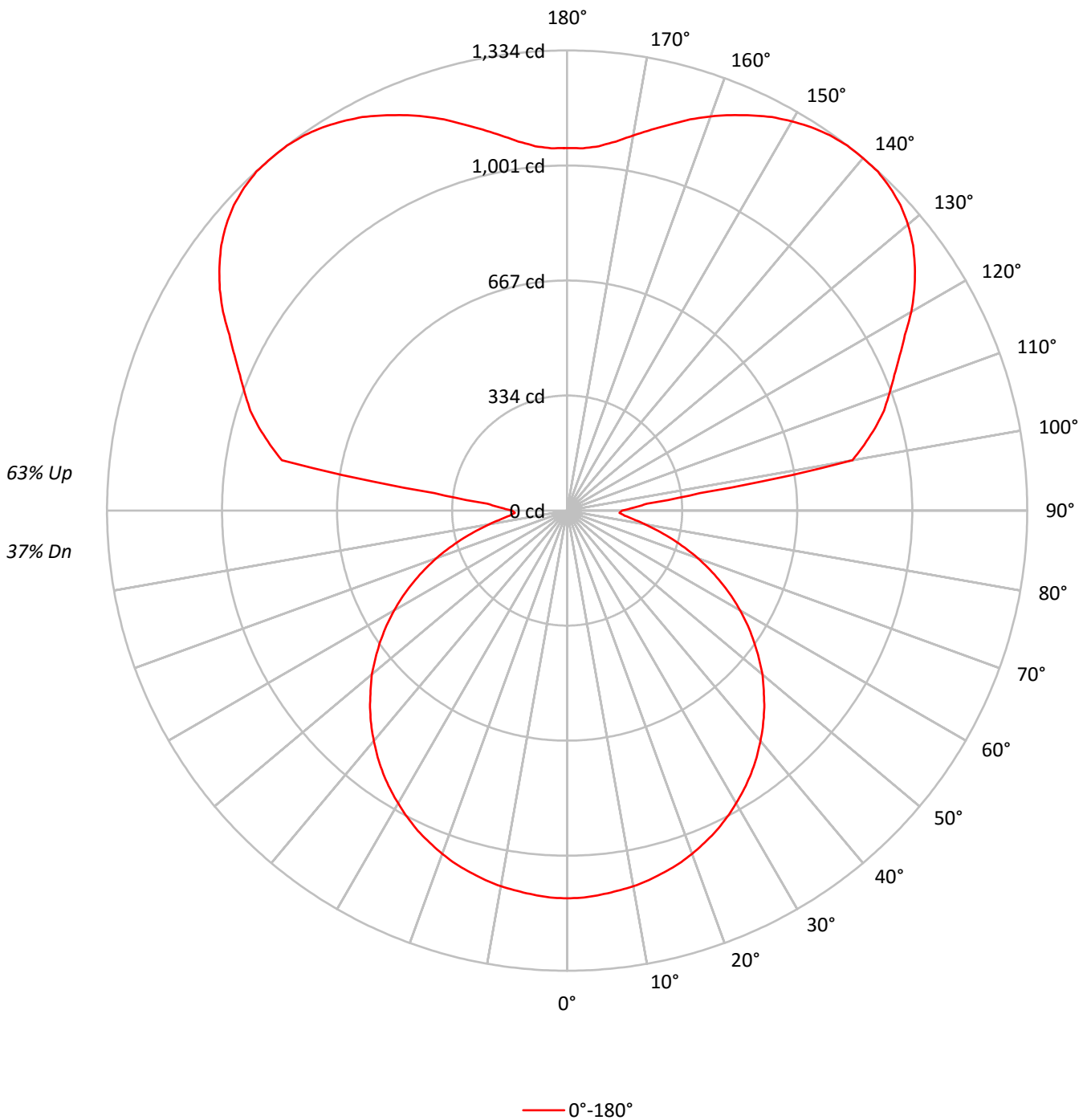
Lumens per Lamp: N/A
Luminaire Lumens: 10055.3 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.3 / 1.43
Luminous Opening: Vertical Cylinder (Dia: 3.5' x H: 1.17')
CIE Type: Semi-Indirect

Input Watts (W): 104.1
Input Voltage (V): 120.0
Input Current (Ain): 0.872
Voltage Rise (V): NR
Power Factor: 0.9979
Total Harmonic Distortion (THDi): 7.55
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
Ambient Temperature (°C): 25.0
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	94	89	85	82	85	81	78	74	65	63	61	51	49	48	38	37	36	29
2	85	78	71	66	77	70	65	60	57	53	50	44	42	39	33	31	29	24
3	78	68	60	55	70	62	55	50	50	45	41	39	35	33	29	26	25	20
4	71	60	52	46	64	54	47	42	44	39	35	34	31	28	25	23	21	17
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18	14
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	20	18	16	13
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	19	16	14	11
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12	10
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	15	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1258
5°	1211
10°	1169
15°	1129
20°	1092
25°	1055
30°	1017
35°	979
40°	939
45°	898
50°	854
55°	803
60°	747
65°	682
70°	609
75°	522
80°	433
85°	366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	1.1
10°-20°	306.9	3.1
20°-30°	472.0	4.7
30°-40°	582.0	5.8
40°-50°	623.5	6.2
50°-60°	591.0	5.9
60°-70°	487.3	4.8
70°-80°	331.0	3.3
80°-90°	192.7	1.9
90°-100°	357.2	3.6
100°-110°	974.3	9.7
110°-120°	1058.1	10.5
120°-130°	1100.1	10.9
130°-140°	1021.8	10.2
140°-150°	832.5	8.3
150°-160°	585.6	5.8
160°-170°	330.4	3.3
170°-180°	102.6	1.0
0°-30°	885.2	8.8
0°-40°	1467.2	14.6
0°-60°	2681.6	26.7
0°-90°	3692.6	36.7
90°-120°	2389.6	23.8
90°-150°	5344.0	53.1
90°-180°	6363.0	63.3
0°-180°	10055.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1124	
5°	1118	106
15°	1086	307
25°	1024	472
35°	930	582
45°	808	623
55°	661	591
65°	492	487
75°	312	331
85°	167	150
90°	159	91
95°	233	309
105°	924	974
115°	1064	1058
125°	1231	1100
135°	1324	1022
145°	1328	833
155°	1264	586
165°	1159	330
175°	1060	103
180°	1051	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1124
2.5°	1123
5°	1118
7.5°	1112
10°	1106
12.5°	1097
15°	1086
17.5°	1074
20°	1059
22.5°	1042
25°	1024
27.5°	1003
30°	980
32.5°	956
35°	930
37.5°	902
40°	872
42.5°	841
45°	808
47.5°	773
50°	739
52.5°	700
55°	661
57.5°	621
60°	579
62.5°	537
65°	492
67.5°	448
70°	403
72.5°	357
75°	312
77.5°	269
80°	229
82.5°	194
85°	167
87.5°	152
90°	159
92.5°	192
95°	233
97.5°	388
100°	840
102.5°	882
105°	924
107.5°	963
110°	994



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1027
115°	1064
117.5°	1104
120°	1152
122.5°	1194
125°	1231
127.5°	1264
130°	1290
132.5°	1311
135°	1324
137.5°	1333
140°	1334
142.5°	1334
145°	1328
147.5°	1318
150°	1303
152.5°	1286
155°	1264
157.5°	1241
160°	1216
162.5°	1189
165°	1159
167.5°	1131
170°	1104
172.5°	1079
175°	1060
177.5°	1051
180°	1051

(END OF REPORT)