

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: P34342

Luminaire Tested: **142-36-P1S-L9/827-UNV-NA-34**

Test Date: 08/10/15

Test Information

Test Method: LM-79-08
Report Number: P34342
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: 142-36-P15-L9/827-UNV-NA-34
Description: SHAPER 142 SERIES 36" FABRIQUE DRUM PENDANT LUMINAIRE
Light Source: 22 CKTS 2700K LEDS
12540995
Ballast/Driver: (1) HATCH ELECTRONIC DRIVER (1) ROAL ELECTRONIC DRIVER
LC60-2400Z-UNV-F, RSLD035-07

Summary

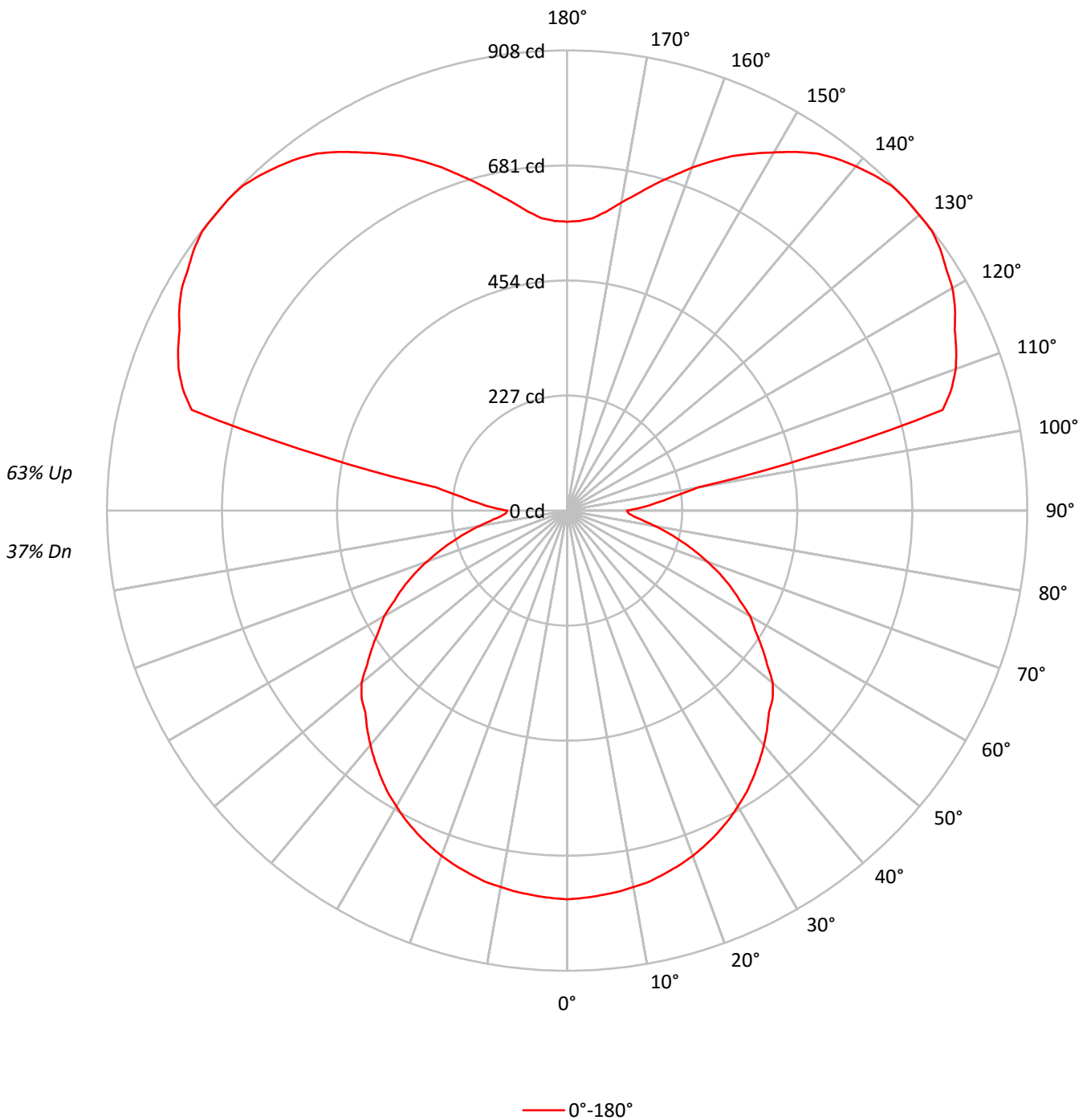
Lumens per Lamp: N/A
Luminaire Lumens: 6982.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.44
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 1')
CIE Type: Semi-Indirect

Input Watts (W): 81.3
Input Voltage (V): 120.0
Input Current (Ain): 0.686
Voltage Rise (V): NR
Power Factor: 0.9923
Total Harmonic Distortion (THDi): 9.79
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		60	60	60		45	45	45	37
1	94	89	85	82	85	81	78	74	66	63	61		51	49	48		38	37	36	30
2	85	78	71	66	77	70	65	60	57	53	49		44	42	39		33	31	29	24
3	77	68	60	54	70	62	55	50	50	45	41		39	36	33		29	27	25	20
4	71	60	52	45	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	59	47	39	33	54	43	36	31	35	30	26		28	24	21		21	18	16	12
7	55	42	34	29	49	39	32	27	32	26	22		25	21	18		19	16	14	11
8	51	38	31	25	46	35	28	23	29	23	20		23	19	16		17	14	12	10
9	47	35	27	22	43	32	25	21	26	21	17		21	17	14		16	13	11	9
10	44	32	25	20	40	29	23	18	24	19	16		19	15	13		15	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1168
5°	1123
10°	1085
15°	1050
20°	1018
25°	985
30°	952
35°	919
40°	885
45°	851
50°	834
55°	775
60°	732
65°	672
70°	604
75°	531
80°	453
85°	394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.0
10°-20°	209.7	3.0
20°-30°	323.8	4.6
30°-40°	401.5	5.8
40°-50°	437.6	6.3
50°-60°	420.6	6.0
60°-70°	352.0	5.0
70°-80°	247.1	3.5
80°-90°	150.2	2.2
90°-100°	198.4	2.8
100°-110°	683.1	9.8
110°-120°	839.6	12.0
120°-130°	803.9	11.5
130°-140°	698.8	10.0
140°-150°	538.8	7.7
150°-160°	357.7	5.1
160°-170°	190.5	2.7
170°-180°	56.5	0.8
0°-30°	606.1	8.7
0°-40°	1007.6	14.4
0°-60°	1865.7	26.7
0°-90°	2615.0	37.5
90°-120°	1721.1	24.6
90°-150°	3762.6	53.9
90°-180°	4367.0	62.5
0°-180°	6982.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	767	
5°	762	73
15°	742	210
25°	702	324
35°	641	401
45°	563	438
55°	469	421
65°	356	352
75°	233	247
85°	132	117
90°	118	69
95°	178	162
105°	767	683
115°	844	840
125°	899	804
135°	906	699
145°	860	539
155°	772	358
165°	666	190
175°	579	57
180°	570	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	767
2.5°	765
5°	762
7.5°	759
10°	754
12.5°	750
15°	742
17.5°	734
20°	725
22.5°	714
25°	702
27.5°	689
30°	674
32.5°	659
35°	641
37.5°	623
40°	604
42.5°	584
45°	563
47.5°	550
50°	530
52.5°	497
55°	469
57.5°	440
60°	417
62.5°	384
65°	356
67.5°	326
70°	294
72.5°	264
75°	233
77.5°	204
80°	176
82.5°	151
85°	132
87.5°	121
90°	118
92.5°	149
95°	178
97.5°	211
100°	262
102.5°	490
105°	767
107.5°	795
110°	816



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	831
115°	844
117.5°	863
120°	878
122.5°	887
125°	899
127.5°	907
130°	907
132.5°	908
135°	906
137.5°	897
140°	887
142.5°	875
145°	860
147.5°	839
150°	816
152.5°	794
155°	772
157.5°	746
160°	720
162.5°	692
165°	666
167.5°	640
170°	617
172.5°	595
175°	579
177.5°	572
180°	570

(END OF REPORT)