

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: P237907

Luminaire Tested: **1400-DOME-90-L27-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25854)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1400-DOME-90-L27-120
Description: SHAPER 1400 SERIES LED PENDANT DIRECT DOWNLIGHT
Light Source: LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 650.0 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.48
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

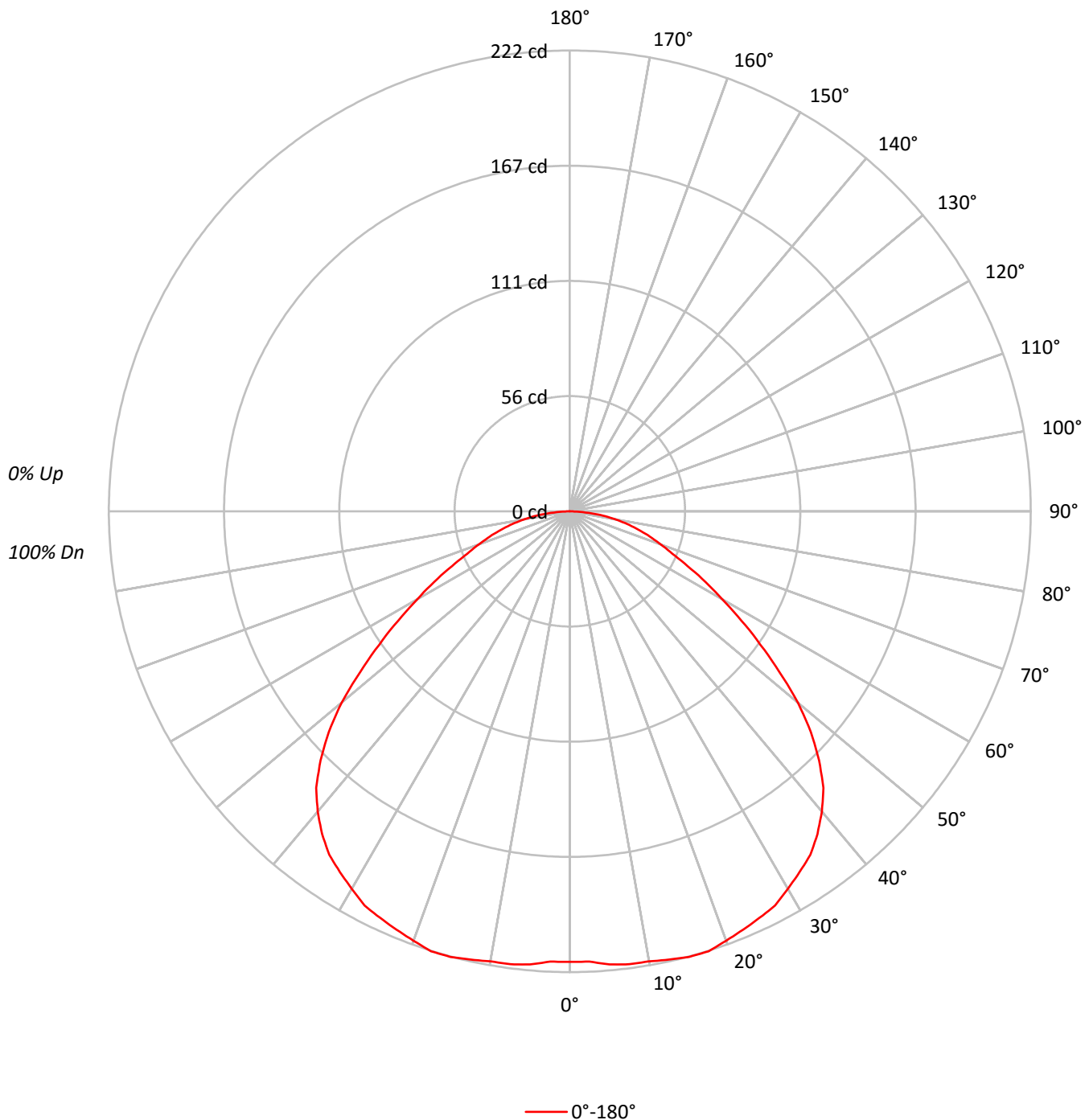
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26778
5°	27128
10°	27567
15°	28374
20°	28891
25°	29411
30°	29910
35°	30417
40°	30400
45°	29602
50°	27517
55°	24107
60°	20919
65°	18270
70°	16770
75°	16346
80°	15769
85°	12879

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.9	3.2
10°-20°	62.8	9.7
20°-30°	99.8	15.4
30°-40°	125.9	19.4
40°-50°	130.0	20.0
50°-60°	100.7	15.5
60°-70°	63.1	9.7
70°-80°	36.2	5.6
80°-90°	10.4	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	183.5	28.2
0°-40°	309.4	47.6
0°-60°	540.2	83.1
0°-90°	650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	650.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	217	
5°	219	21
15°	222	63
25°	216	100
35°	202	126
45°	170	130
55°	112	101
65°	63	63
75°	34	36
85°	9	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	217.1
2.5°	217.1
5°	219.1
7.5°	220.1
10°	220.1
12.5°	221.2
15°	222.2
17.5°	222.2
20°	220.1
22.5°	218.1
25°	216.1
27.5°	214.1
30°	210.0
32.5°	206.0
35°	202.0
37.5°	195.9
40°	188.8
42.5°	180.8
45°	169.7
47.5°	157.5
50°	143.4
52.5°	127.2
55°	112.1
57.5°	98.0
60°	84.8
62.5°	73.7
65°	62.6
67.5°	53.5
70°	46.5
72.5°	40.4
75°	34.3
77.5°	28.3
80°	22.2
82.5°	16.2
85°	9.1
87.5°	2.0
90°	0.0

(END OF REPORT)