

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: P237910

Luminaire Tested: **1400-DOME-90-L40-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237910
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-L40-120
Description: SHAPER 1400 SERIES LED PENDANT DIRECT DOWNLIGHT
Light Source: LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 710.0 lumens
Efficiency: N/A
Efficacy: 59.2 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

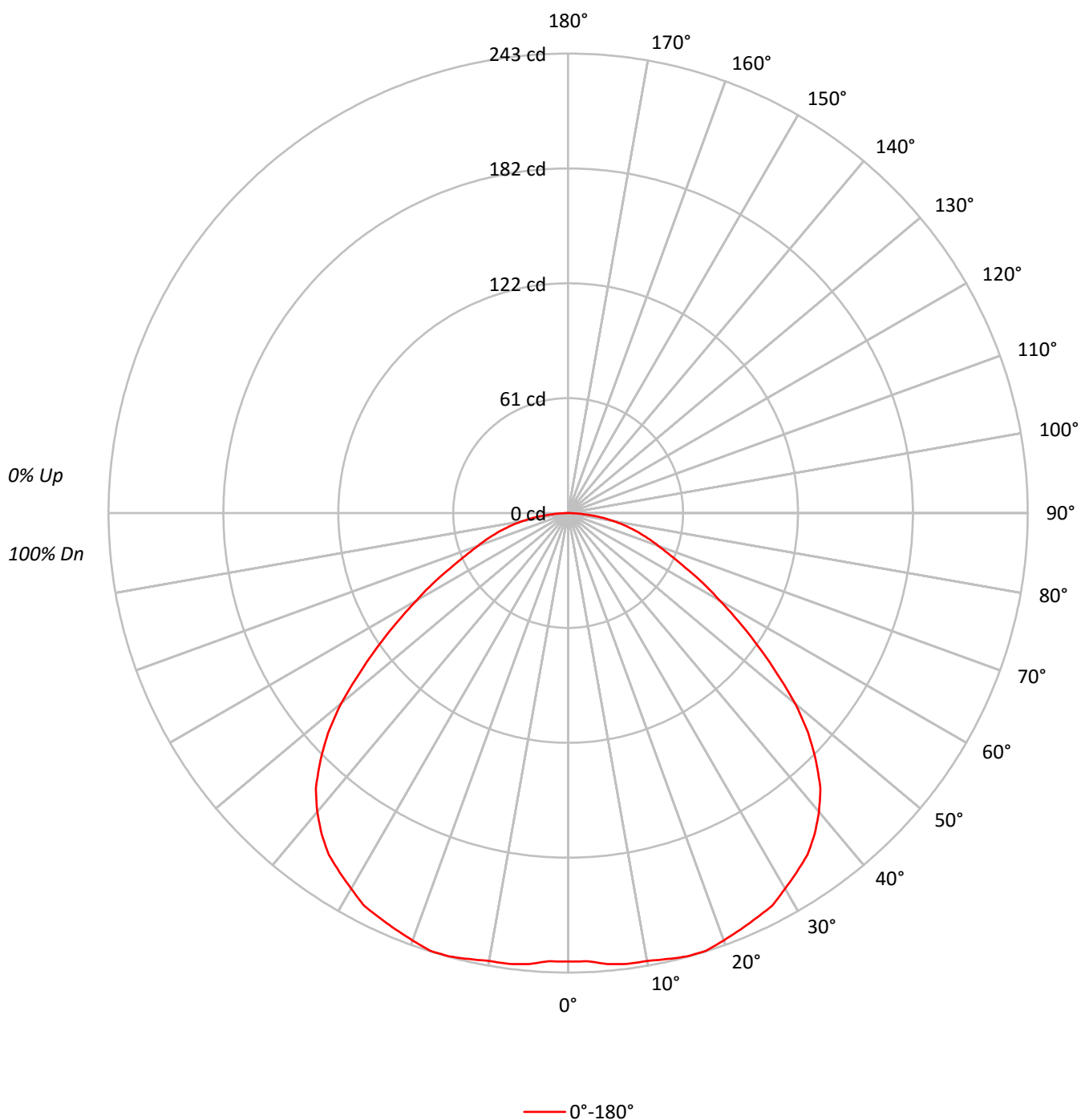
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 1400-DOME-90-L40-120

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°	29258
5°	29642
10°	30122
15°	30992
20°	31568
25°	32132
30°	32673
35°	33217
40°	33218
45°	32323
50°	30050
55°	26322
60°	22868
65°	19963
70°	18284
75°	17871
80°	17261
85°	14011

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.9	3.2
10°-20°	68.6	9.7
20°-30°	109.0	15.4
30°-40°	137.5	19.4
40°-50°	142.0	20.0
50°-60°	110.0	15.5
60°-70°	69.0	9.7
70°-80°	39.6	5.6
80°-90°	11.4	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°	200.5	28.2
0°-40°	338.0	47.6
0°-60°	590.1	83.1
0°-90°	710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	237	
5°	239	23
15°	243	69
25°	236	109
35°	221	138
45°	185	142
55°	122	110
65°	68	69
75°	38	40
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	237.2
2.5°	237.2
5°	239.4
7.5°	240.5
10°	240.5
12.5°	241.6
15°	242.7
17.5°	242.7
20°	240.5
22.5°	238.3
25°	236.1
27.5°	233.9
30°	229.4
32.5°	225.0
35°	220.6
37.5°	214.0
40°	206.3
42.5°	197.4
45°	185.3
47.5°	172.1
50°	156.6
52.5°	139.0
55°	122.4
57.5°	107.0
60°	92.7
62.5°	80.5
65°	68.4
67.5°	58.5
70°	50.7
72.5°	44.1
75°	37.5
77.5°	30.9
80°	24.3
82.5°	17.6
85°	9.9
87.5°	2.2
90°	0.0

(END OF REPORT)