

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: P237908

Luminaire Tested: **1400-DOME-90-L30-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237908
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-L30-120
Description: SHAPER 1400 SERIES LED PENDANT DIRECT DOWNLIGHT
Light Source: LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 670.0 lumens
Efficiency: N/A
Efficacy: 55.8 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

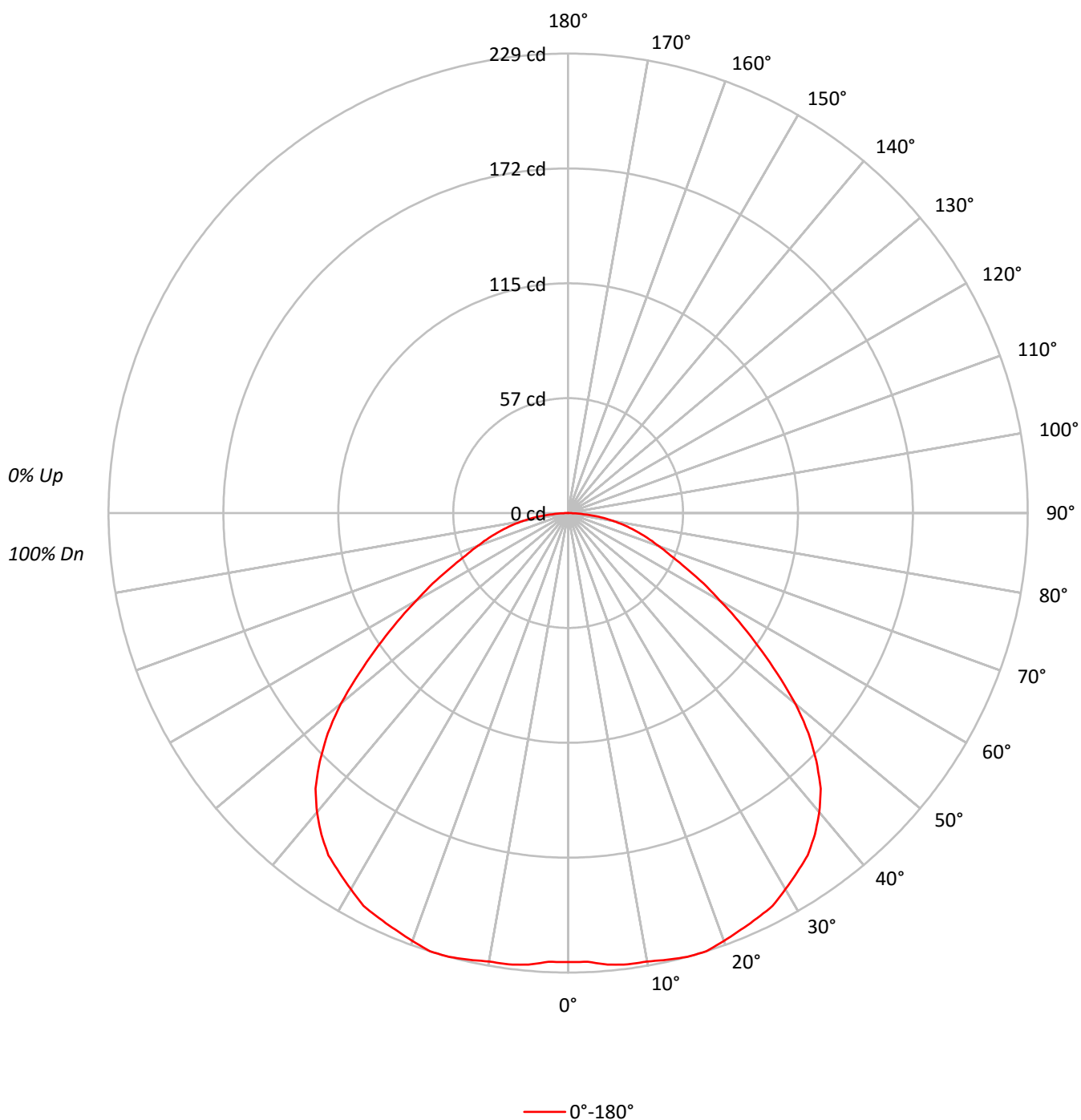
Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P237908

CATALOG NUMBER: 1400-DOME-90-L30-120

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			
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°	27605
5°	27970
10°	28419
15°	29243
20°	29783
25°	30322
30°	30836
35°	31350
40°	31350
45°	30509
50°	28362
55°	24838
60°	21561
65°	18825
70°	17275
75°	16871
80°	16266
85°	13303

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	3.2
10°-20°	64.7	9.7
20°-30°	102.9	15.4
30°-40°	129.8	19.4
40°-50°	134.0	20.0
50°-60°	103.8	15.5
60°-70°	65.1	9.7
70°-80°	37.3	5.6
80°-90°	10.8	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°	189.2	28.2
0°-40°	318.9	47.6
0°-60°	556.8	83.1
0°-90°	670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	670.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	224	
5°	226	22
15°	229	65
25°	223	103
35°	208	130
45°	175	134
55°	116	104
65°	64	65
75°	35	37
85°	9	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	223.8
2.5°	223.8
5°	225.9
7.5°	226.9
10°	226.9
12.5°	228.0
15°	229.0
17.5°	229.0
20°	226.9
22.5°	224.8
25°	222.8
27.5°	220.7
30°	216.5
32.5°	212.3
35°	208.2
37.5°	201.9
40°	194.7
42.5°	186.3
45°	174.9
47.5°	162.4
50°	147.8
52.5°	131.2
55°	115.5
57.5°	101.0
60°	87.4
62.5°	76.0
65°	64.5
67.5°	55.2
70°	47.9
72.5°	41.6
75°	35.4
77.5°	29.1
80°	22.9
82.5°	16.7
85°	9.4
87.5°	2.1
90°	0.0

(END OF REPORT)