

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: P237906

Luminaire Tested: **1400-DOME-80-L40-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237906
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-80-L40-120
Description: SHAPER 1400 SERIES LED PENDANT DIRECT DOWNLIGHT
Light Source: LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 800.1 lumens
Efficiency: N/A
Efficacy: 65.6 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

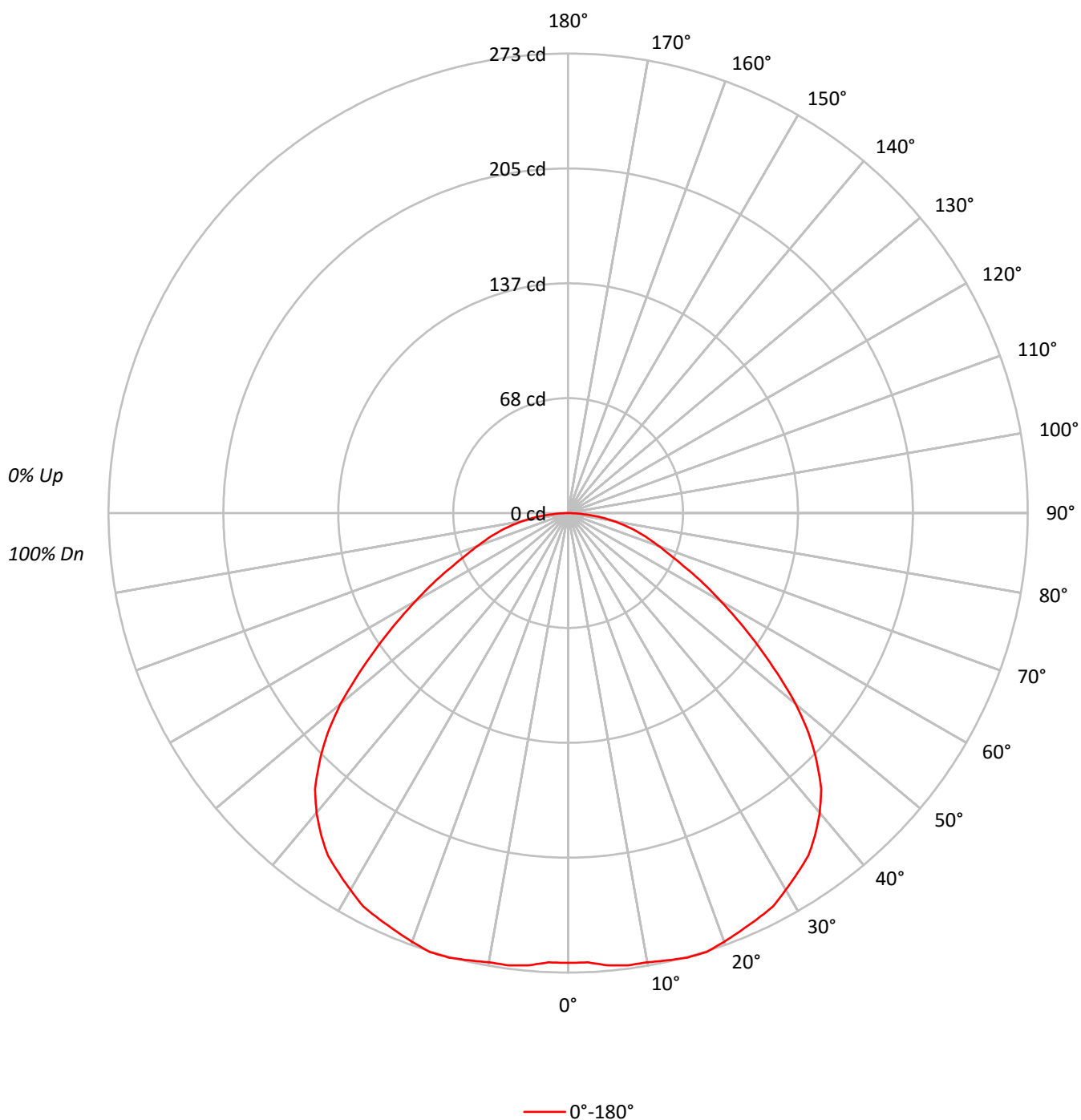
Input Watts (W): 12.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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°	32958
5°	33393
10°	33942
15°	34912
20°	35572
25°	36202
30°	36817
35°	37433
40°	37420
45°	36422
50°	33869
55°	29676
60°	25755
65°	22502
70°	20629
75°	20159
80°	19392
85°	15851

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	3.2
10°-20°	77.3	9.7
20°-30°	122.8	15.4
30°-40°	155.0	19.4
40°-50°	160.0	20.0
50°-60°	124.0	15.5
60°-70°	77.7	9.7
70°-80°	44.6	5.6
80°-90°	12.8	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°	225.9	28.2
0°-40°	380.8	47.6
0°-60°	664.9	83.1
0°-90°	800.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	800.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	267	
5°	270	26
15°	273	77
25°	266	123
35°	249	155
45°	209	160
55°	138	124
65°	77	78
75°	42	45
85°	11	13
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	267.2
2.5°	267.2
5°	269.7
7.5°	271.0
10°	271.0
12.5°	272.2
15°	273.4
17.5°	273.4
20°	271.0
22.5°	268.5
25°	266.0
27.5°	263.5
30°	258.5
32.5°	253.6
35°	248.6
37.5°	241.1
40°	232.4
42.5°	222.5
45°	208.8
47.5°	193.9
50°	176.5
52.5°	156.6
55°	138.0
57.5°	120.6
60°	104.4
62.5°	90.7
65°	77.1
67.5°	65.9
70°	57.2
72.5°	49.7
75°	42.3
77.5°	34.8
80°	27.3
82.5°	19.9
85°	11.2
87.5°	2.5
90°	0.0

(END OF REPORT)