

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: SHAPER

Report Number: G3-2203-583-13

Luminaire Tested: 309-FIL-120-BRMT-WHST

Test Date: 6/15/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-13
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/15/2022
Issue Date: 6/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 309-FIL-120-BRMT-WHST
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, STONE BROWN MATTE (OPAQUE) SHADE, FILAMENT LAMP
Light Source: 1 PHILIPS
FILAMENT BULB - 60W EQUIVALENT 929001969604
8A19/PER/927-922/CL/G/E26/WGX 1FB T20. PHILIPS
Ballast/Driver: PHILIPS
INTEGRAL TO LAMP

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 429.4 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 2.04 / 2.04 / 1.85
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 0.67' x H: 1')
CIE Type: Direct

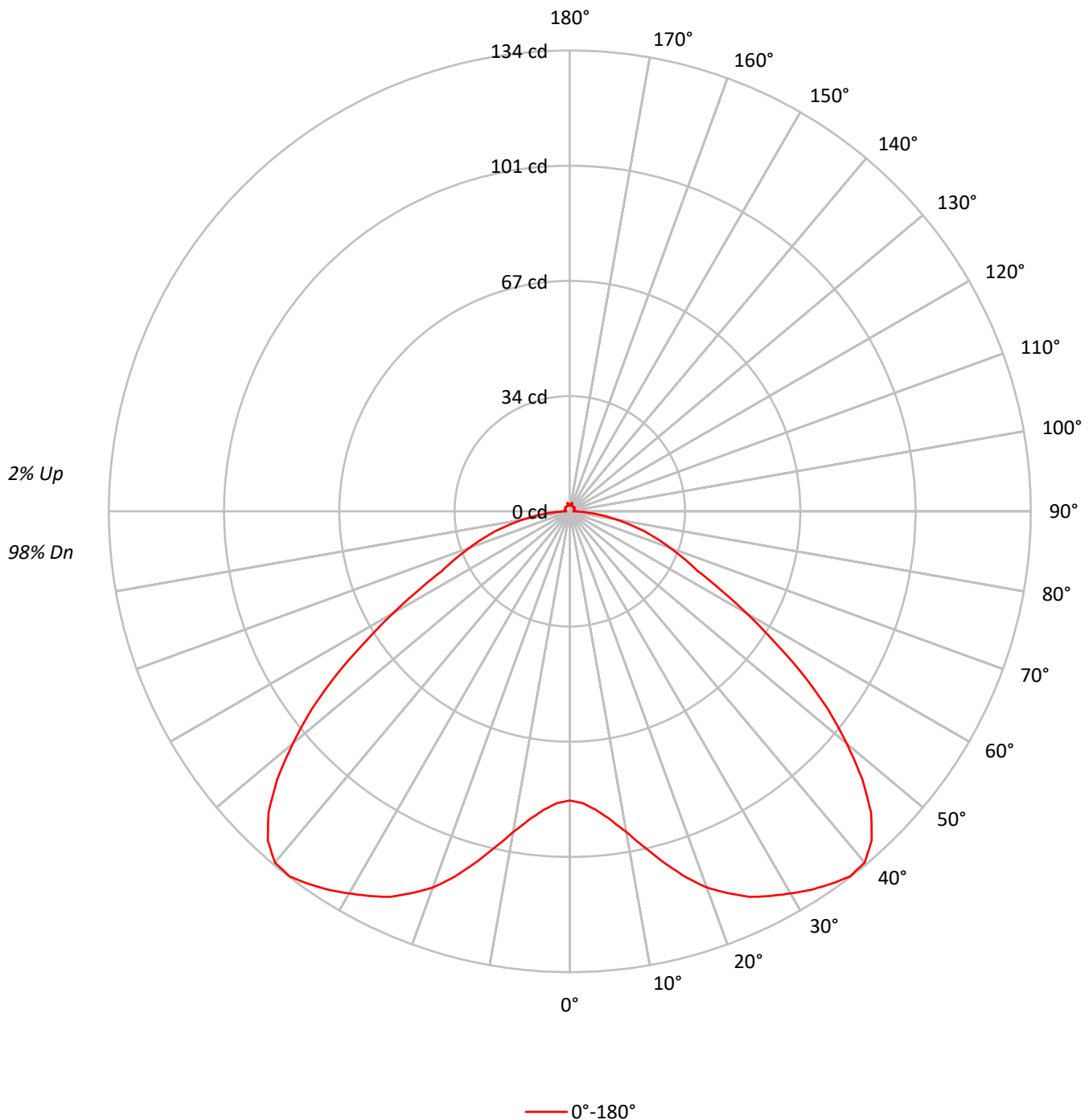
Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0792
Voltage Rise (V): NR
Power Factor: 0.9982
Total Harmonic Distortion (THDi): 70.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 7.0 HR
Ambient Temperature (°C): 24.5
Test Distance: 24 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100
1	108	104	100	96	106	101	97	94	97	93	91		92	90	87		88
2	99	90	84	78	96	88	82	77	84	79	75		81	77	73		78
3	90	79	71	65	87	77	70	64	74	68	62		71	66	61		68
4	82	70	61	54	79	68	60	54	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	58	51	45		56	50	45		54
6	69	55	46	40	67	54	46	40	52	45	39		50	44	39		49
7	64	50	41	35	62	49	41	35	47	40	34		46	39	34		44
8	59	45	37	31	57	44	36	30	43	35	30		41	35	30		40
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37
10	51	38	30	24	50	37	29	24	36	29	24		35	28	24		34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2037
5°	1872
10°	1842
15°	1890
20°	1941
25°	1945
30°	1923
35°	1908
40°	1866
45°	1696
50°	1421
55°	1113
60°	798
65°	557
70°	429
75°	318
80°	204
85°	98

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	2.0
10°-20°	30.3	7.0
20°-30°	57.1	13.3
30°-40°	82.9	19.3
40°-50°	94.2	21.9
50°-60°	73.6	17.1
60°-70°	42.3	9.9
70°-80°	23.6	5.5
80°-90°	7.3	1.7
90°-100°	1.4	0.3
100°-110°	1.3	0.3
110°-120°	1.4	0.3
120°-130°	1.5	0.3
130°-140°	1.3	0.3
140°-150°	1.0	0.2
150°-160°	0.8	0.2
160°-170°	0.6	0.1
170°-180°	0.2	0.0
0°-30°	96.0	22.3
0°-40°	178.9	41.7
0°-60°	346.7	80.7
0°-90°	419.9	97.8
90°-120°	4.1	1.0
90°-150°	7.9	1.8
90°-180°	10.0	2.3
0°-180°	429.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	84	
5°	87	9
15°	106	30
25°	124	57
35°	132	83
45°	124	94
55°	83	74
65°	41	42
75°	22	24
85°	6	7
90°	1	1
95°	1	1
105°	1	1
115°	1	1
125°	2	1
135°	2	1
145°	2	1
155°	2	1
165°	2	1
175°	2	0
180°	2	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	84.1
2.5°	84.9
5°	87.1
7.5°	90.4
10°	94.7
12.5°	100.0
15°	105.7
17.5°	111.4
20°	116.4
22.5°	120.2
25°	123.7
27.5°	126.1
30°	128.3
32.5°	130.5
35°	132.3
37.5°	133.8
40°	133.3
42.5°	129.9
45°	123.8
47.5°	115.3
50°	105.1
52.5°	94.6
55°	82.8
57.5°	70.4
60°	59.3
62.5°	49.3
65°	41.0
67.5°	35.8
70°	31.0
72.5°	26.6
75°	22.4
77.5°	18.0
80°	13.9
82.5°	10.0
85°	6.4
87.5°	2.9
90°	1.1
92.5°	1.7
95°	1.3
97.5°	1.1
100°	1.1
102.5°	1.1
105°	1.2
107.5°	1.2
110°	1.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.4
115°	1.4
117.5°	1.5
120°	1.5
122.5°	1.6
125°	1.7
127.5°	1.7
130°	1.7
132.5°	1.7
135°	1.7
137.5°	1.7
140°	1.7
142.5°	1.7
145°	1.7
147.5°	1.6
150°	1.6
152.5°	1.6
155°	1.6
157.5°	1.7
160°	1.8
162.5°	2.2
165°	2.5
167.5°	2.2
170°	2.2
172.5°	2.1
175°	1.9
177.5°	1.8
180°	1.7

(END OF REPORT)