

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: G3-2203-583-16

Luminaire Tested: 311-FIL-120-BRMT-WHST

Test Date: 06/16/22

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-16
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 06/16/22
Issue Date: 06/16/22
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 311-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: 241.1 lumens
Efficiency: N/A
Efficacy: 31.3 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 0.67' x H: 1')
CIE Type: Direct

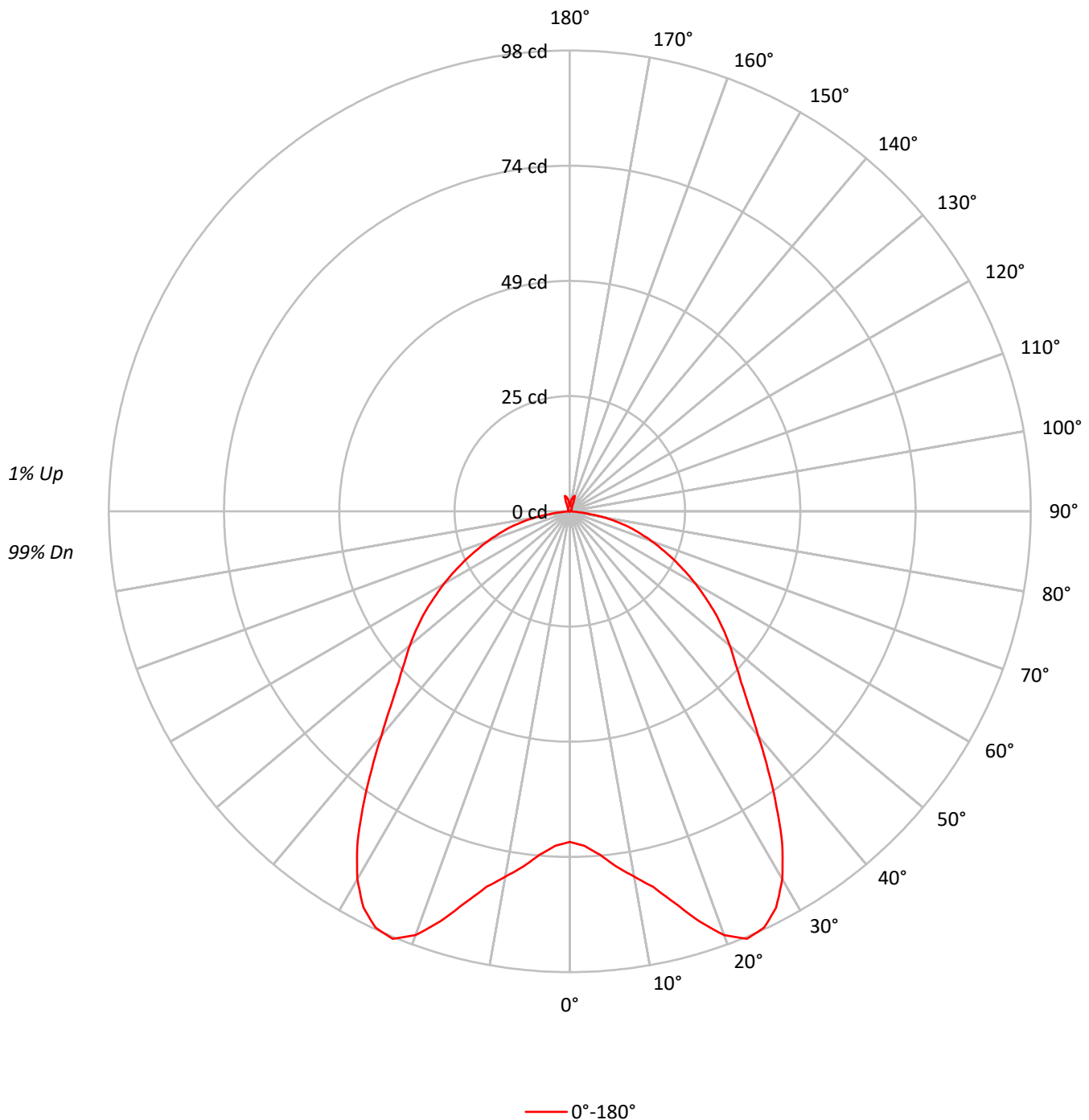
Input Watts (W): 7.7
Input Voltage (V): 120.0
Input Current (Ain): 0.0790
Voltage Rise (V): NR
Power Factor: 0.8161
Total Harmonic Distortion (THDi): 70.4%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 3 HR
Ambient Temperature (°C): 25.4
Test Distance: 24 FT



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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					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	110	110	110	106	106	106	101	101	101	99			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	89	90	88	87	85			
2	100	92	86	81	97	90	84	79	87	82	77	83	79	76	80	77	74	72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	71	67	63	61			
4	84	73	64	58	82	71	64	58	69	62	57	66	61	56	64	59	55	53			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46			
6	72	59	50	44	70	58	50	44	56	49	44	54	48	43	53	47	43	41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	44	39	34	32			
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29			
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	26			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1703
5°	1575
10°	1534
15°	1542
20°	1599
25°	1536
30°	1353
35°	1105
40°	872
45°	706
50°	600
55°	507
60°	416
65°	332
70°	256
75°	186
80°	107
85°	12

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	3.0
10°-20°	24.8	10.3
20°-30°	44.4	18.4
30°-40°	47.7	19.8
40°-50°	40.3	16.7
50°-60°	33.7	14.0
60°-70°	24.2	10.1
70°-80°	13.7	5.7
80°-90°	2.3	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.2	0.1
130°-140°	0.4	0.2
140°-150°	0.4	0.2
150°-160°	0.6	0.3
160°-170°	0.9	0.4
170°-180°	0.2	0.1
0°-30°	76.4	31.7
0°-40°	124.1	51.5
0°-60°	198.1	82.2
0°-90°	238.3	98.9
90°-120°	0.0	0.0
90°-150°	1.0	0.4
90°-180°	3.0	1.2
0°-180°	241.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	70	
5°	73	7
15°	86	25
25°	98	44
35°	77	48
45°	52	40
55°	38	34
65°	24	24
75°	13	14
85°	1	2
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	1	0
155°	1	1
165°	3	1
175°	2	0
180°	1	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	70.3
2.5°	71.2
5°	73.3
7.5°	76.2
10°	78.9
12.5°	81.8
15°	86.2
17.5°	91.4
20°	95.9
22.5°	98.4
25°	97.7
27.5°	95.0
30°	90.3
32.5°	84.1
35°	76.6
37.5°	69.2
40°	62.3
42.5°	56.4
45°	51.5
47.5°	47.7
50°	44.4
52.5°	41.1
55°	37.7
57.5°	34.2
60°	30.9
62.5°	27.6
65°	24.4
67.5°	21.3
70°	18.5
72.5°	15.7
75°	13.1
77.5°	10.3
80°	7.3
82.5°	3.9
85°	0.8
87.5°	0.2
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.1
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.1
125°	0.2
127.5°	0.2
130°	0.4
132.5°	0.5
135°	0.5
137.5°	0.5
140°	0.6
142.5°	0.6
145°	0.7
147.5°	0.7
150°	0.8
152.5°	0.9
155°	1.2
157.5°	1.9
160°	2.8
162.5°	3.4
165°	3.3
167.5°	3.0
170°	2.7
172.5°	2.4
175°	1.6
177.5°	1.3
180°	1.1

(END OF REPORT)