

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: G3-2203-583-20

Luminaire Tested: 313-FIL-120-BRMT-WHST

Test Date: 6/17/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-20
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/17/2022
Issue Date: 6/17/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 313-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: 199.5 lumens
Efficiency: N/A
Efficacy: 25.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.18
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 0.65' x H: 0.96')
CIE Type: Direct

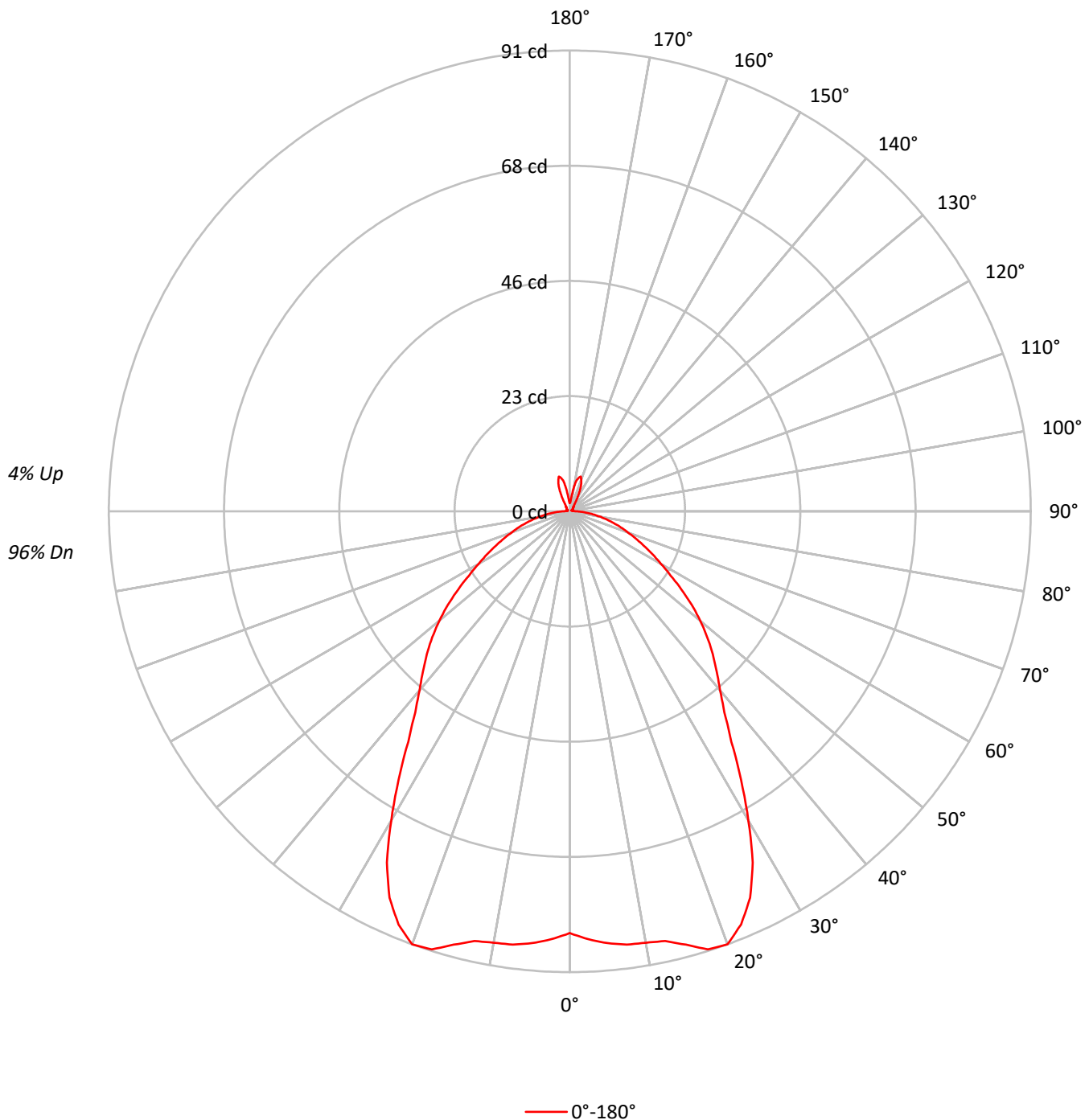
Input Watts (W): 7.7
Input Voltage (V): 120.0
Input Current (Ain): 0.0789
Voltage Rise (V): NR
Power Factor: 0.9909
Total Harmonic Distortion (THDi): 70.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 7.0 HR
Ambient Temperature (°C): 24.7
Test Distance: 24 FT



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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	118	118	118	118	115	115	115	115	109	109	109		103	103	103		98
1	109	104	101	97	106	102	98	95	97	94	91		92	90	88		88
2	100	93	86	81	97	90	85	80	86	81	77		82	78	75		79
3	92	82	75	69	89	81	74	68	77	71	67		74	69	65		71
4	85	74	66	60	82	72	65	59	70	63	58		67	61	57		64
5	79	67	59	53	76	66	58	52	63	56	51		61	55	50		59
6	73	61	53	47	71	60	52	46	58	51	46		56	50	45		54
7	68	56	48	42	66	55	47	42	53	46	41		51	45	40		49
8	64	51	43	38	62	50	43	38	49	42	37		47	41	37		46
9	60	47	40	34	58	47	39	34	45	38	34		44	38	33		43
10	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2122
5°	1939
10°	1776
15°	1675
20°	1606
25°	1403
30°	1120
35°	851
40°	685
45°	581
50°	483
55°	385
60°	298
65°	233
70°	180
75°	135
80°	94
85°	56

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 581 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	4.1
10°-20°	25.2	12.7
20°-30°	38.1	19.1
30°-40°	35.3	17.7
40°-50°	30.7	15.4
50°-60°	24.1	12.1
60°-70°	16.1	8.1
70°-80°	9.5	4.8
80°-90°	3.7	1.9
90°-100°	0.8	0.4
100°-110°	0.5	0.2
110°-120°	0.5	0.2
120°-130°	0.6	0.3
130°-140°	0.7	0.4
140°-150°	1.0	0.5
150°-160°	2.2	1.1
160°-170°	1.9	0.9
170°-180°	0.3	0.2
0°-30°	71.5	35.8
0°-40°	106.8	53.6
0°-60°	161.7	81.1
0°-90°	191.0	95.8
90°-120°	1.8	0.9
90°-150°	4.1	2.1
90°-180°	8.0	4.0
0°-180°	199.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	83	
5°	86	8
15°	89	25
25°	84	38
35°	56	35
45°	40	31
55°	27	24
65°	16	16
75°	9	9
85°	3	3
90°	1	1
95°	1	1
105°	0	0
115°	0	0
125°	1	1
135°	1	1
145°	2	1
155°	5	2
165°	7	2
175°	2	0
180°	2	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	83.3
2.5°	84.6
5°	85.6
7.5°	86.3
10°	86.5
12.5°	86.9
15°	88.6
17.5°	90.7
20°	91.0
22.5°	88.3
25°	84.2
27.5°	78.2
30°	70.5
32.5°	62.9
35°	55.6
37.5°	50.1
40°	46.1
42.5°	42.9
45°	39.9
47.5°	36.8
50°	33.6
52.5°	30.3
55°	26.9
57.5°	23.6
60°	20.8
62.5°	18.4
65°	16.1
67.5°	14.1
70°	12.2
72.5°	10.6
75°	8.9
77.5°	7.4
80°	6.0
82.5°	4.6
85°	3.4
87.5°	2.2
90°	1.1
92.5°	0.8
95°	0.6
97.5°	0.7
100°	0.5
102.5°	0.5
105°	0.5
107.5°	0.4
110°	0.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.5
115°	0.5
117.5°	0.4
120°	0.6
122.5°	0.6
125°	0.7
127.5°	0.7
130°	0.8
132.5°	0.8
135°	0.9
137.5°	1.1
140°	1.1
142.5°	1.3
145°	1.5
147.5°	1.9
150°	2.7
152.5°	3.7
155°	4.9
157.5°	5.9
160°	6.6
162.5°	7.2
165°	6.9
167.5°	6.3
170°	5.1
172.5°	3.4
175°	2.2
177.5°	1.7
180°	1.7

(END OF REPORT)