

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: G3-2203-583-4

Luminaire Tested: 301-FIL-120-BRMT-BZME

Test Date: 6/11/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-4
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/11/2022
Issue Date: 6/11/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 301-FIL-120-BRMT-BZME
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: 216.5 lumens
Efficiency: N/A
Efficacy: 27.8 lumens/watt
Spacing Criteria (0/90/45): 1.76 / 1.75 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 1.17' x H: 1.26')
CIE Type: Direct

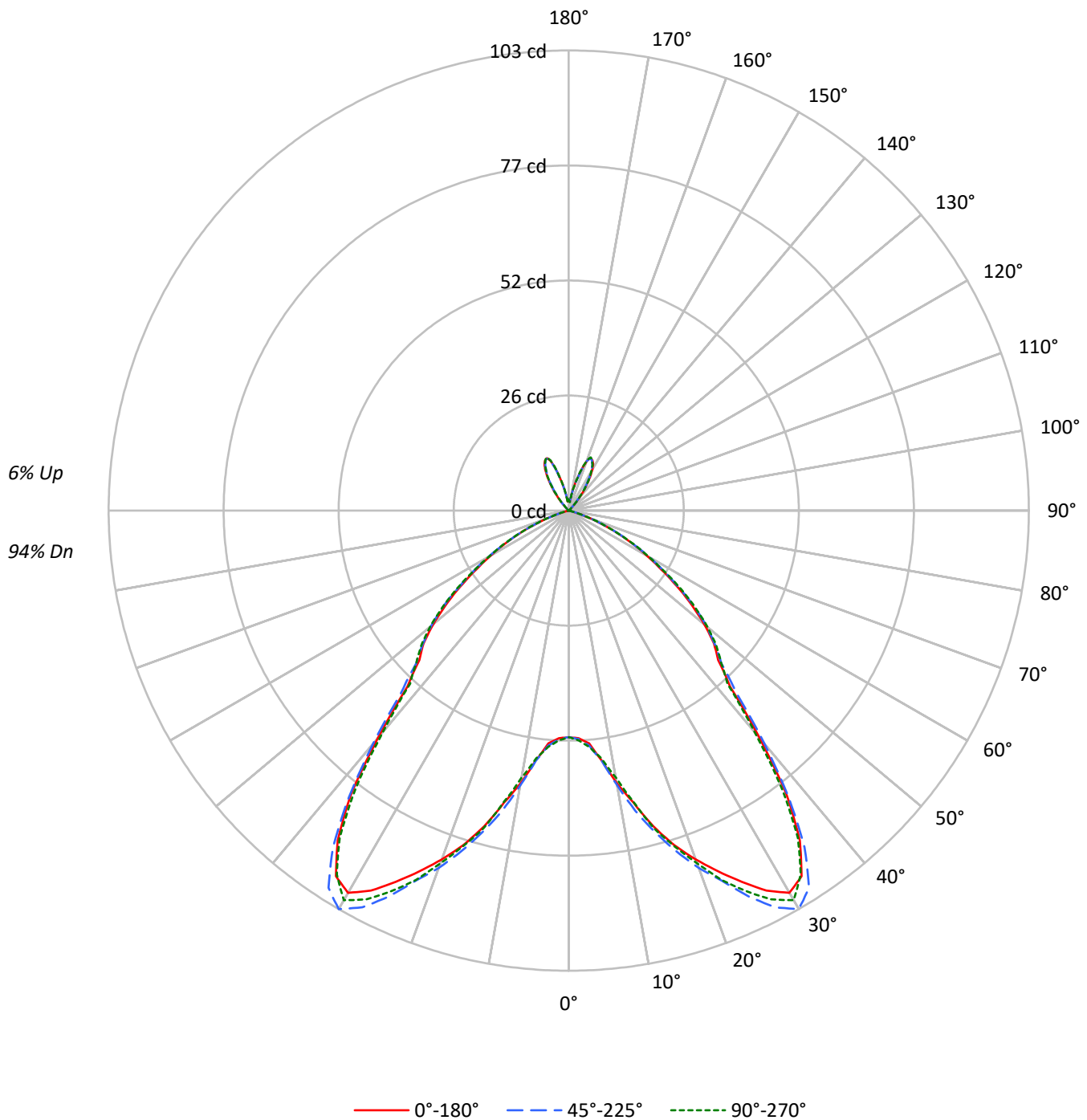
Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0794
Voltage Rise (V): NR
Power Factor: 0.9982
Total Harmonic Distortion (THDi): 70.5%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 7.0 HR
Ambient Temperature (°C): 24.0
Test Distance: 24 FT



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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	114	114	114	114	108	108	108		102	102	102		96
1	110	106	103	100	106	103	100	97	98	95	93		93	91	89		89
2	101	95	89	84	98	92	87	83	88	84	80		84	80	77		80
3	94	85	78	72	91	83	76	71	79	74	69		76	71	67		72
4	86	76	68	62	84	74	67	62	71	65	60		68	63	59		65
5	80	68	60	55	77	67	60	54	64	58	53		62	56	52		59
6	74	62	54	48	72	61	53	48	58	52	47		56	50	46		54
7	69	56	48	43	67	55	48	42	53	46	42		51	45	41		49
8	64	51	43	38	62	50	43	38	49	42	37		47	41	37		45
9	60	47	39	34	58	46	39	34	45	38	33		43	37	33		42
10	56	43	36	31	54	43	35	31	41	35	30		40	34	30		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	401	401	401
5°	379	370	385
10°	417	395	409
15°	465	432	467
20°	502	460	507
25°	532	485	545
30°	555	499	566
35°	495	429	491
40°	359	308	350
45°	254	213	259
50°	213	175	218
55°	160	131	167
60°	111	91	114
65°	69	54	70
70°	31	24	31
75°	4	4	4
80°	3	2	3
85°	2	1	2

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 259 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	2.5
10°-20°	21.2	9.8
20°-30°	43.3	20.0
30°-40°	53.9	24.9
40°-50°	38.2	17.6
50°-60°	27.0	12.5
60°-70°	12.3	5.7
70°-80°	1.7	0.8
80°-90°	0.2	0.1
90°-100°	0.1	0.1
100°-110°	0.1	0.1
110°-120°	0.1	0.1
120°-130°	0.1	0.1
130°-140°	0.7	0.3
140°-150°	4.0	1.9
150°-160°	5.5	2.5
160°-170°	2.3	1.1
170°-180°	0.2	0.1
0°-30°	69.9	32.3
0°-40°	123.8	57.2
0°-60°	189.0	87.3
0°-90°	203.2	93.9
90°-120°	0.4	0.2
90°-150°	5.3	2.4
90°-180°	13.0	6.0
0°-180°	216.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	51	51	51	51	51	
5°	52	52	53	53	53	5
15°	73	74	74	74	74	21
25°	92	92	95	94	94	43
35°	90	86	92	88	89	55
45°	47	48	48	48	48	38
55°	30	30	30	30	31	26
65°	12	12	12	12	12	12
75°	1	1	1	1	1	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	1	0	0	1	1	1
145°	7	6	6	6	7	4
155°	12	12	12	12	12	6
165°	8	7	7	8	8	2
175°	2	2	2	2	2	0
180°	2	2	2	2	2	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	50.7	50.7	50.7	50.7	50.7
2.5°	51.0	51.0	51.2	51.4	51.5
5°	52.3	52.4	52.8	52.8	53.1
7.5°	56.4	56.2	56.5	56.2	55.9
10°	61.9	61.8	62.4	61.4	60.7
12.5°	67.0	68.2	68.8	67.6	66.7
15°	73.2	74.2	74.5	73.5	73.6
17.5°	78.5	80.0	79.9	79.2	78.8
20°	83.1	85.2	85.1	84.8	84.0
22.5°	87.4	88.8	89.7	89.1	89.5
25°	91.7	92.3	95.3	93.7	94.0
27.5°	95.9	95.4	100.1	98.3	98.1
30°	98.8	96.9	103.0	101.1	100.7
32.5°	97.0	94.1	100.1	96.6	96.6
35°	90.2	86.1	92.0	88.5	89.4
37.5°	80.1	73.9	80.8	76.2	78.4
40°	66.4	62.1	68.1	63.9	64.7
42.5°	53.5	52.4	55.8	52.9	52.6
45°	47.3	47.7	48.3	48.3	48.3
47.5°	44.1	44.2	44.4	44.7	44.8
50°	39.6	39.9	40.2	40.3	40.6
52.5°	34.7	35.0	35.6	35.5	35.7
55°	29.6	29.9	30.3	30.4	30.8
57.5°	24.6	25.0	25.3	25.4	25.4
60°	20.2	20.4	20.9	20.7	20.7
62.5°	16.1	16.2	16.2	16.4	16.6
65°	12.2	12.2	12.4	12.4	12.5
67.5°	8.4	8.4	8.7	8.7	8.7
70°	5.3	5.1	5.3	5.2	5.3
72.5°	2.5	2.6	2.6	2.6	2.7
75°	0.7	0.7	0.8	0.7	0.7
77.5°	0.4	0.5	0.4	0.4	0.4
80°	0.4	0.4	0.4	0.4	0.4
82.5°	0.3	0.2	0.2	0.2	0.3
85°	0.3	0.3	0.2	0.3	0.3
87.5°	0.1	0.1	0.1	0.1	0.1
90°	0.1	0.1	0.1	0.1	0.1
92.5°	0.2	0.2	0.2	0.1	0.2
95°	0.1	0.1	0.1	0.1	0.1
97.5°	0.2	0.1	0.2	0.1	0.1
100°	0.1	0.2	0.1	0.1	0.1
102.5°	0.2	0.1	0.1	0.1	0.1
105°	0.2	0.1	0.1	0.2	0.1
107.5°	0.1	0.2	0.2	0.1	0.1
110°	0.2	0.1	0.1	0.1	0.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.1	0.1	0.1	0.1	0.1
115°	0.2	0.2	0.1	0.2	0.2
117.5°	0.2	0.1	0.1	0.1	0.1
120°	0.2	0.1	0.1	0.1	0.2
122.5°	0.2	0.2	0.1	0.2	0.2
125°	0.3	0.2	0.2	0.3	0.4
127.5°	0.2	0.1	0.0	0.1	0.2
130°	0.3	0.1	0.0	0.1	0.2
132.5°	0.4	0.1	0.0	0.2	0.2
135°	0.9	0.5	0.4	0.6	0.7
137.5°	1.9	1.4	1.4	1.5	1.6
140°	3.5	2.9	2.9	3.0	3.2
142.5°	5.2	4.7	4.6	4.7	4.8
145°	6.9	6.5	6.4	6.5	6.8
147.5°	8.8	8.5	8.3	8.3	8.5
150°	10.5	10.2	9.9	9.9	10.1
152.5°	11.8	11.6	11.4	11.4	11.5
155°	12.5	12.5	12.3	12.4	12.4
157.5°	12.7	12.6	12.7	12.7	12.9
160°	11.8	11.7	11.8	11.9	12.0
162.5°	9.8	9.8	9.7	9.9	10.0
165°	7.5	7.4	7.3	7.5	7.6
167.5°	5.6	5.6	5.5	5.7	5.6
170°	3.6	3.6	3.6	3.6	3.6
172.5°	2.0	2.0	2.1	2.0	1.9
175°	2.1	2.0	2.1	2.1	2.1
177.5°	2.3	2.2	2.1	2.1	2.2
180°	2.5	2.5	2.5	2.5	2.5

(END OF REPORT)