

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: G3-2203-583-15

Luminaire Tested: 309-FR-120-GNMT-BZME

Test Date: 6/16/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-15
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/16/2022
Issue Date: 6/16/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 309-FR-120-GNMT-BZME
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, ENAMEL GREEN MATTE (OPAQUE) SHADE, FROSTED LAMP
Light Source: 1 PHILIPS
FROSTED BULB - 60W EQUIVALENT 929002036204 8.8A19/PER/930/P/E26/DIM
6/1FB T20. PHILIPS
Ballast/Driver: PHILIPS
INTEGRAL TO LAMP

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 540.7 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.73 / 1.73 / 1.69
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 0.67' x H: 1')
CIE Type: Direct

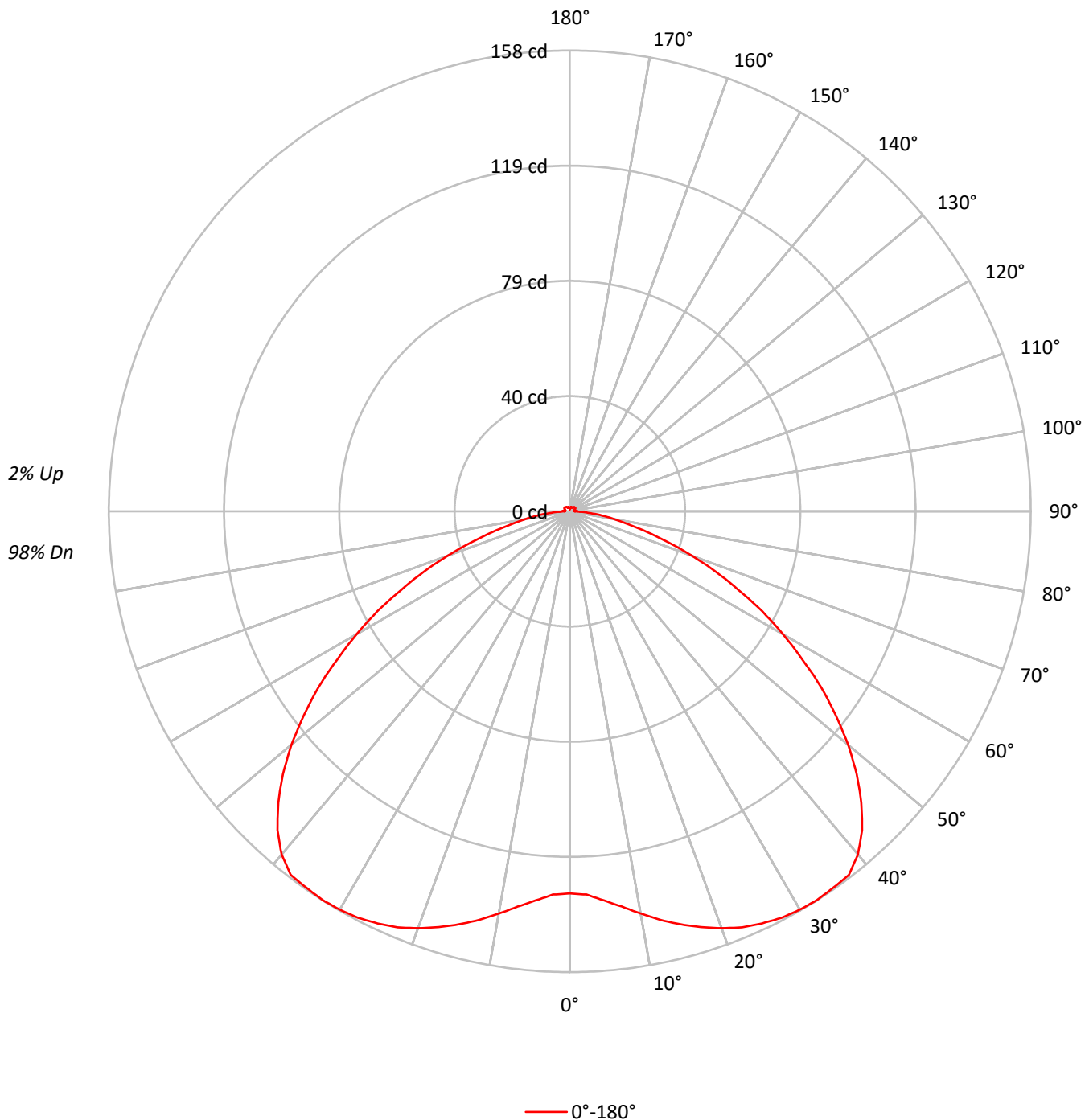
Input Watts (W): 7.7
Input Voltage (V): 119.9
Input Current (Ain): 0.0675
Voltage Rise (V): NR
Power Factor: 0.9493
Total Harmonic Distortion (THDi): 24.7%
Frequency (hertz): 60
Stabilization Time: 0.333 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.3
Test Distance: 24 FT



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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	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		105	105	105		100	100	100	98
1	108	104	99	96		105	101	97	94		97	93	91		92	90	87		88	86	84	82
2	99	90	83	78		96	88	82	77		84	79	75		81	76	73		77	74	71	68
3	90	79	71	64		87	77	70	64		74	67	62		71	65	61		68	63	60	57
4	82	70	61	54		79	68	60	54		65	58	53		63	57	52		60	55	51	48
5	75	62	53	46		73	61	52	46		58	51	45		56	49	44		54	48	44	41
6	69	55	46	40		67	54	46	40		52	45	39		50	44	39		49	43	38	36
7	64	50	41	35		62	49	41	35		47	40	34		46	39	34		44	38	33	31
8	59	45	37	31		57	45	36	31		43	36	30		42	35	30		40	34	30	28
9	55	41	33	27		53	41	33	27		39	32	27		38	31	27		37	31	26	25
10	51	38	30	25		50	37	30	24		36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3173
5°	2878
10°	2723
15°	2622
20°	2536
25°	2451
30°	2363
35°	2271
40°	2150
45°	1936
50°	1683
55°	1414
60°	1138
65°	867
70°	617
75°	390
80°	226
85°	109

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.0	2.4
10°-20°	41.7	7.7
20°-30°	72.1	13.3
30°-40°	98.6	18.2
40°-50°	108.5	20.1
50°-60°	93.6	17.3
60°-70°	63.5	11.7
70°-80°	29.9	5.5
80°-90°	8.2	1.5
90°-100°	2.1	0.4
100°-110°	1.7	0.3
110°-120°	2.0	0.4
120°-130°	2.0	0.4
130°-140°	1.6	0.3
140°-150°	1.1	0.2
150°-160°	0.7	0.1
160°-170°	0.4	0.1
170°-180°	0.1	0.0
0°-30°	126.7	23.4
0°-40°	225.3	41.7
0°-60°	427.5	79.1
0°-90°	529.1	97.8
90°-120°	5.9	1.1
90°-150°	10.5	1.9
90°-180°	12.0	2.2
0°-180°	540.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	131	
5°	134	13
15°	147	42
25°	156	72
35°	158	99
45°	141	108
55°	105	94
65°	64	64
75°	28	30
85°	7	8
90°	2	1
95°	2	2
105°	2	2
115°	2	2
125°	2	2
135°	2	2
145°	2	1
155°	1	1
165°	2	0
175°	1	0
180°	1	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	131.0
2.5°	131.5
5°	133.9
7.5°	136.7
10°	140.0
12.5°	143.5
15°	146.6
17.5°	149.5
20°	152.1
22.5°	154.4
25°	155.9
27.5°	157.1
30°	157.7
32.5°	157.9
35°	157.5
37.5°	157.1
40°	153.6
42.5°	148.3
45°	141.3
47.5°	133.3
50°	124.5
52.5°	114.9
55°	105.2
57.5°	94.4
60°	84.5
62.5°	74.4
65°	63.8
67.5°	54.2
70°	44.6
72.5°	35.3
75°	27.5
77.5°	20.5
80°	15.4
82.5°	11.3
85°	7.1
87.5°	3.4
90°	1.6
92.5°	2.5
95°	2.1
97.5°	1.7
100°	1.5
102.5°	1.5
105°	1.6
107.5°	1.7
110°	1.8

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	2.0
115°	2.0
117.5°	2.1
120°	2.2
122.5°	2.2
125°	2.2
127.5°	2.2
130°	2.1
132.5°	2.1
135°	2.1
137.5°	2.0
140°	1.9
142.5°	1.8
145°	1.7
147.5°	1.7
150°	1.5
152.5°	1.5
155°	1.4
157.5°	1.4
160°	1.3
162.5°	1.5
165°	1.6
167.5°	1.2
170°	1.1
172.5°	1.0
175°	1.0
177.5°	0.7
180°	0.7

(END OF REPORT)