

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: G3-2203-583-8

Luminaire Tested: 305-FR-120-DGYS-GDME

Test Date: 6/13/2022

Test Information

Test Method: LM-79-2019
Report Number: G3-2203-583-8
Test Lab: COOPER LIGHTING SOLUTIONS
Test Date: 6/13/2022
Issue Date: 6/13/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 305-FR-120-DGYS-GDME
Description: 3D PRINTED LED LAMP BASED DECORATIVE LUMIANIRE, DARK GRAY (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: 523.3 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.48 / 1.48 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 1.42' x L: 1.42' x H: 1.42')
CIE Type: Direct

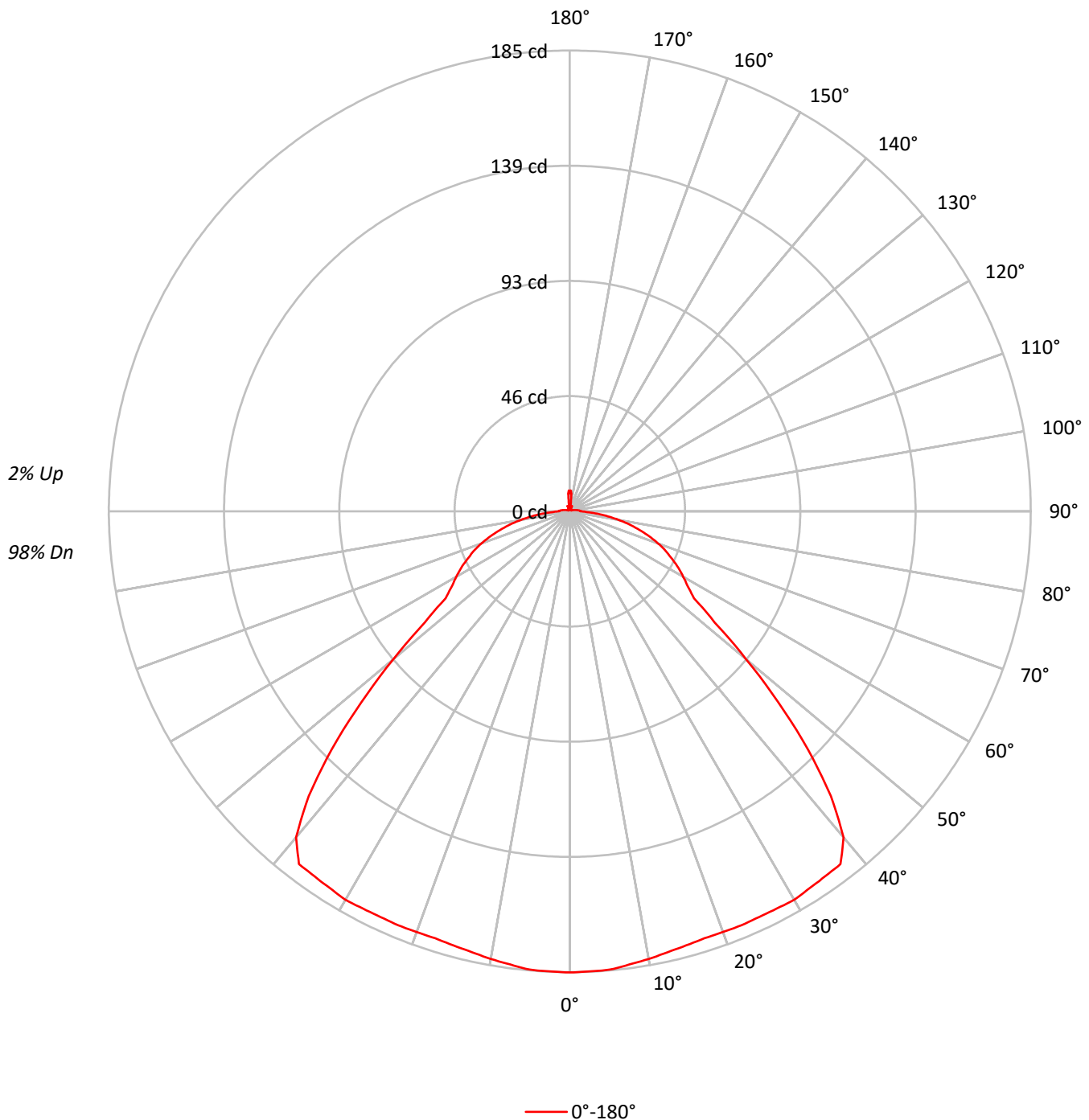
Input Watts (W): 7.8
Input Voltage (V): 120.0
Input Current (Ain): 0.0686
Voltage Rise (V): NR
Power Factor: 0.9788
Total Harmonic Distortion (THDi): 23.4%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 7.0 HR
Ambient Temperature (°C): 24.7
Test Distance: 24 FT



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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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100
1	109	104	100	96	106	102	98	95	97	94	91		93	90	88		89
2	100	92	85	80	97	90	84	79	86	81	76		82	78	74		79
3	91	81	73	67	89	80	72	67	76	70	65		73	68	64		71
4	84	73	64	58	82	71	63	57	68	62	56		66	60	55		63
5	77	65	57	50	75	64	56	50	62	55	49		59	53	48		57
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		52
7	67	54	45	39	65	53	45	39	51	44	39		49	43	38		48
8	62	49	41	35	60	48	40	35	47	40	35		45	39	34		44
9	58	45	37	32	56	44	37	31	43	36	31		42	35	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	993
5°	914
10°	845
15°	790
20°	752
25°	725
30°	707
35°	689
40°	651
45°	513
50°	352
55°	234
60°	207
65°	183
70°	158
75°	127
80°	93
85°	54

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	3.4
10°-20°	51.2	9.8
20°-30°	83.2	15.9
30°-40°	111.8	21.4
40°-50°	102.9	19.7
50°-60°	58.6	11.2
60°-70°	44.9	8.6
70°-80°	30.5	5.8
80°-90°	12.4	2.4
90°-100°	4.1	0.8
100°-110°	2.1	0.4
110°-120°	1.0	0.2
120°-130°	0.6	0.1
130°-140°	0.5	0.1
140°-150°	0.5	0.1
150°-160°	0.7	0.1
160°-170°	0.4	0.1
170°-180°	0.4	0.1
0°-30°	151.9	29.0
0°-40°	263.7	50.4
0°-60°	425.2	81.2
0°-90°	513.0	98.0
90°-120°	7.2	1.4
90°-150°	8.8	1.7
90°-180°	10.0	1.9
0°-180°	523.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	185	
5°	185	18
15°	180	51
25°	180	83
35°	179	112
45°	135	103
55°	61	59
65°	45	45
75°	29	31
85°	11	11
90°	4	3
95°	4	3
105°	2	2
115°	1	1
125°	1	1
135°	1	1
145°	1	0
155°	2	1
165°	1	0
175°	7	0
180°	7	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	185.1
2.5°	184.9
5°	184.7
7.5°	183.5
10°	182.5
12.5°	181.3
15°	180.4
17.5°	179.7
20°	179.7
22.5°	179.9
25°	179.7
27.5°	179.8
30°	180.1
32.5°	179.3
35°	178.8
37.5°	178.5
40°	170.9
42.5°	155.1
45°	135.2
47.5°	113.6
50°	92.5
52.5°	73.3
55°	60.8
57.5°	56.1
60°	52.6
62.5°	49.1
65°	45.3
67.5°	41.7
70°	37.7
72.5°	33.4
75°	29.0
77.5°	24.5
80°	20.0
82.5°	15.5
85°	11.0
87.5°	6.8
90°	4.3
92.5°	4.3
95°	3.8
97.5°	3.3
100°	2.8
102.5°	2.3
105°	2.0
107.5°	1.7
110°	1.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	1.2
115°	1.0
117.5°	0.8
120°	0.7
122.5°	0.7
125°	0.7
127.5°	0.6
130°	0.7
132.5°	0.7
135°	0.7
137.5°	0.7
140°	0.6
142.5°	0.7
145°	0.8
147.5°	0.8
150°	0.7
152.5°	1.0
155°	1.7
157.5°	2.3
160°	1.8
162.5°	1.2
165°	1.4
167.5°	1.4
170°	1.6
172.5°	2.7
175°	7.2
177.5°	8.4
180°	7.1

(END OF REPORT)