

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: P600633

Luminaire Tested: 235-90-40K-LL2-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-582-11)
Test Lab: INNOVATION CENTER
Issue Date: 7/6/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 235-90-40K-LL2-UNV-STD-X-X-WHHR-SR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

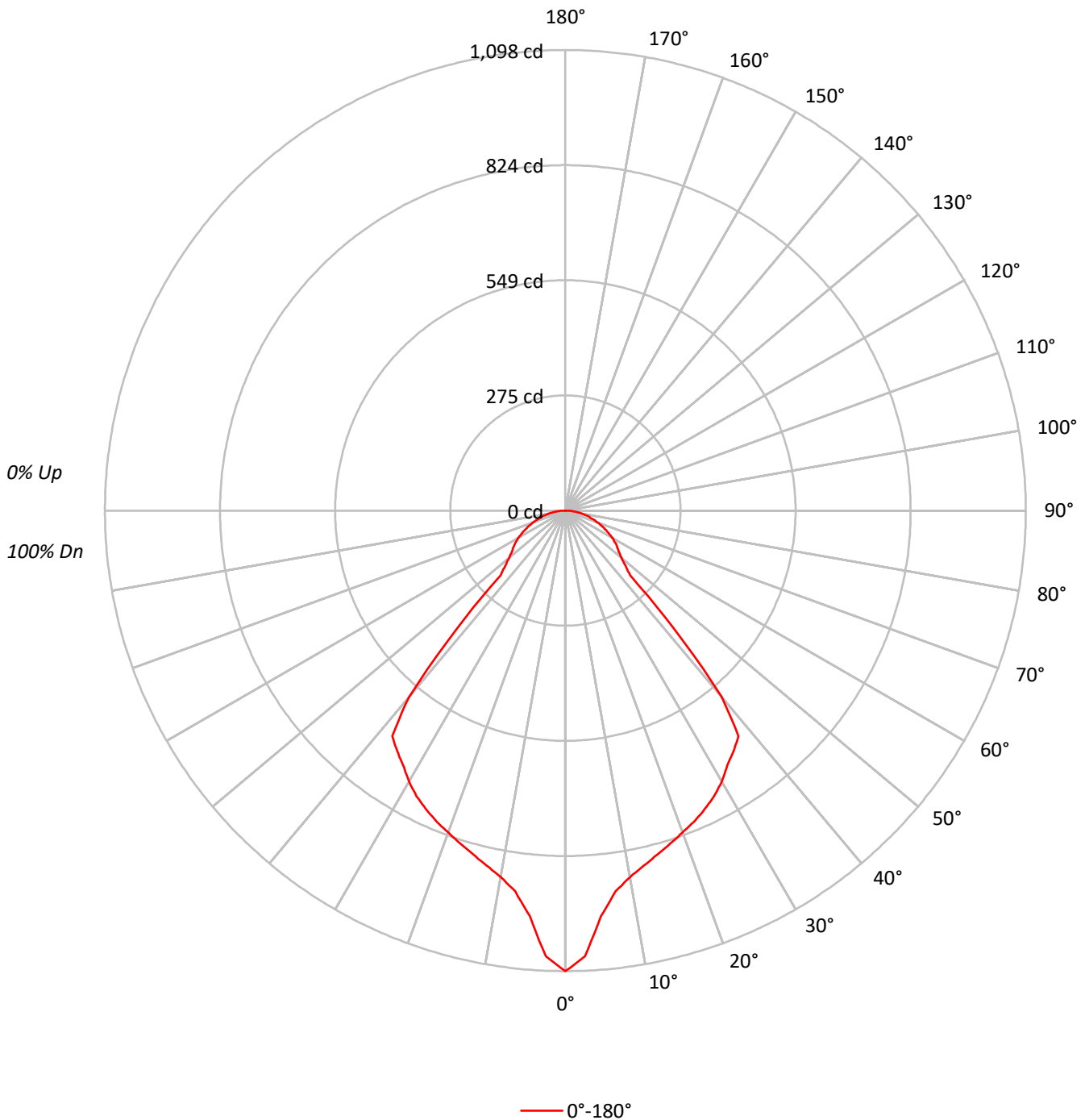
Lumens per Lamp: N/A
Luminaire Lumens: 1667.7 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 12.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
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	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8464
5°	7516
10°	6943
15°	6774
20°	6701
25°	6686
30°	6640
35°	6582
40°	5834
45°	2375
50°	2090
55°	2023
60°	1980
65°	1897
70°	1819
75°	1748
80°	1678
85°	1645

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2375 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	5.4
10°-20°	239.9	14.4
20°-30°	362.1	21.7
30°-40°	431.8	25.9
40°-50°	223.3	13.4
50°-60°	134.7	8.1
60°-70°	103.2	6.2
70°-80°	61.9	3.7
80°-90°	20.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	692.5	41.5
0°-40°	1124.3	67.4
0°-60°	1482.2	88.9
0°-90°	1667.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1098	
5°	971	90
15°	849	240
25°	786	362
35°	699	432
45°	218	223
55°	150	135
65°	104	103
75°	59	62
85°	19	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1097.9
2.5°	1063.1
5°	971.3
7.5°	915.5
10°	887.0
12.5°	866.7
15°	848.7
17.5°	832.4
20°	816.8
22.5°	802.2
25°	786.0
27.5°	768.0
30°	745.9
32.5°	719.7
35°	699.4
37.5°	677.9
40°	579.7
42.5°	386.3
45°	217.8
47.5°	194.0
50°	174.3
52.5°	160.3
55°	150.5
57.5°	140.0
60°	128.4
62.5°	116.2
65°	104.0
67.5°	92.4
70°	80.7
72.5°	69.1
75°	58.7
77.5°	47.6
80°	37.8
82.5°	27.9
85°	18.6
87.5°	9.3
90°	0.0

(END OF REPORT)