

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: P600586

Luminaire Tested: 235-90-30K-LL3-UNV-STD-X-X-WHHR-BR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600586
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: 235-90-30K-LL3-UNV-STD-X-X-WHHR-BR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

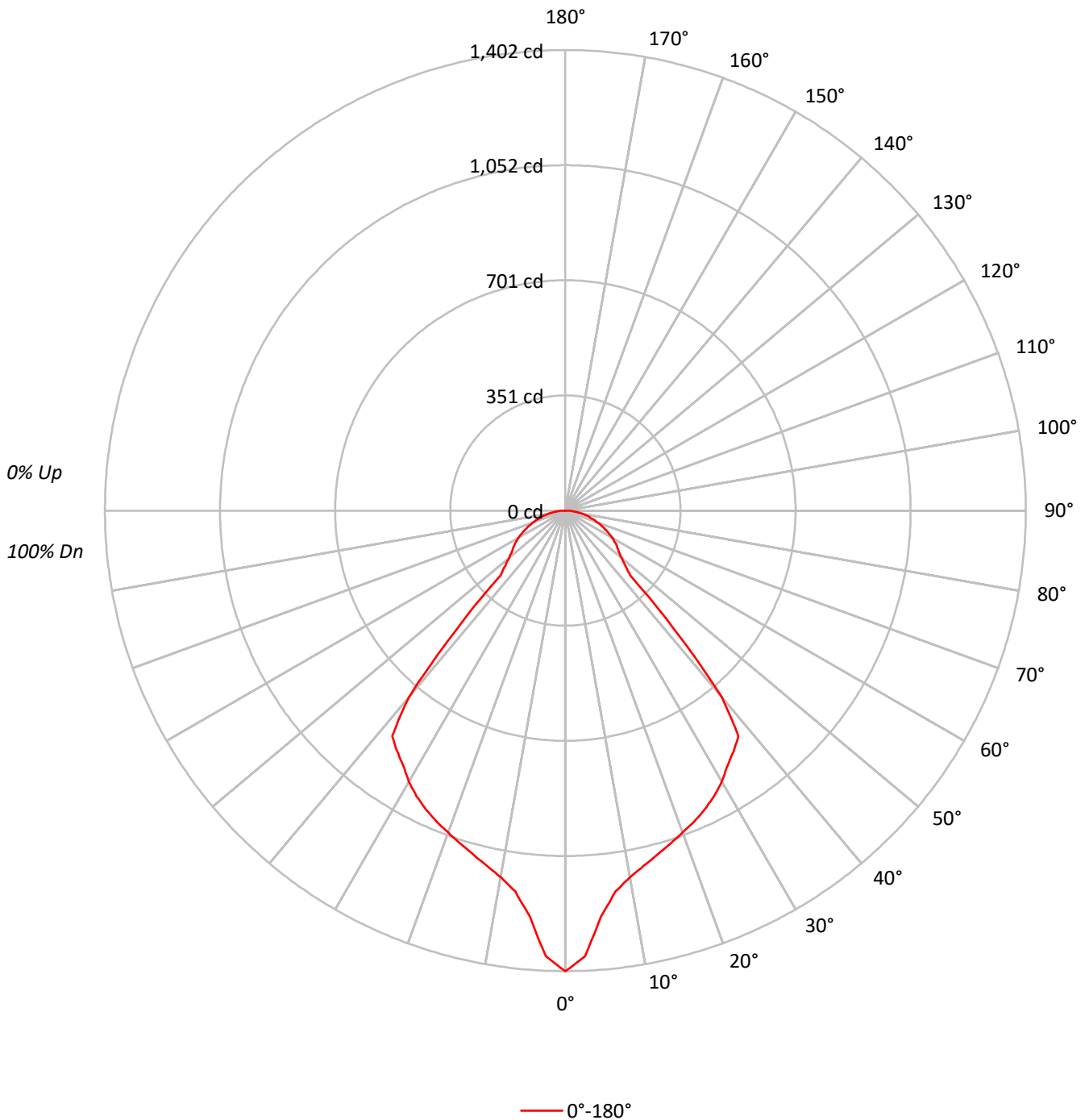
Lumens per Lamp: N/A
Luminaire Lumens: 2129.9 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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



TEST NUMBER: P600586
CATALOG NUMBER: 235-90-30K-LL3-UNV-STD-X-X-WHHR-BR-X

Luminous Intensity Polar Plot





TEST NUMBER: P600586

CATALOG NUMBER: 235-90-30K-LL3-UNV-STD-X-X-WHHR-BR-X

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°	10810
5°	9600
10°	8868
15°	8651
20°	8558
25°	8538
30°	8480
35°	8407
40°	7451
45°	3033
50°	2670
55°	2583
60°	2529
65°	2422
70°	2324
75°	2231
80°	2140
85°	2096

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3033 cd/sqm



TEST NUMBER: P600586

CATALOG NUMBER: 235-90-30K-LL3-UNV-STD-X-X-WHHR-BR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	5.4
10°-20°	306.4	14.4
20°-30°	462.5	21.7
30°-40°	551.5	25.9
40°-50°	285.2	13.4
50°-60°	172.0	8.1
60°-70°	131.8	6.2
70°-80°	79.0	3.7
80°-90°	25.9	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°	884.4	41.5
0°-40°	1435.9	67.4
0°-60°	1893.1	88.9
0°-90°	2129.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1402	
5°	1240	116
15°	1084	306
25°	1004	462
35°	893	551
45°	278	285
55°	192	172
65°	133	132
75°	75	79
85°	24	26
90°	0	



TEST NUMBER: P600586

CATALOG NUMBER: 235-90-30K-LL3-UNV-STD-X-X-WHHR-BR-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	1402.2
2.5°	1357.7
5°	1240.5
7.5°	1169.3
10°	1132.9
12.5°	1107.0
15°	1084.0
17.5°	1063.2
20°	1043.2
22.5°	1024.6
25°	1003.8
27.5°	980.8
30°	952.6
32.5°	919.2
35°	893.3
37.5°	865.8
40°	740.4
42.5°	493.4
45°	278.2
47.5°	247.8
50°	222.6
52.5°	204.8
55°	192.2
57.5°	178.8
60°	164.0
62.5°	148.4
65°	132.8
67.5°	118.0
70°	103.1
72.5°	88.3
75°	74.9
77.5°	60.8
80°	48.2
82.5°	35.6
85°	23.7
87.5°	11.9
90°	0.0

(END OF REPORT)