

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: P600594

Luminaire Tested: 235-90-30K-LL5-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600594
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-LL5-UNV-STD-X-X-WHHR-SR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

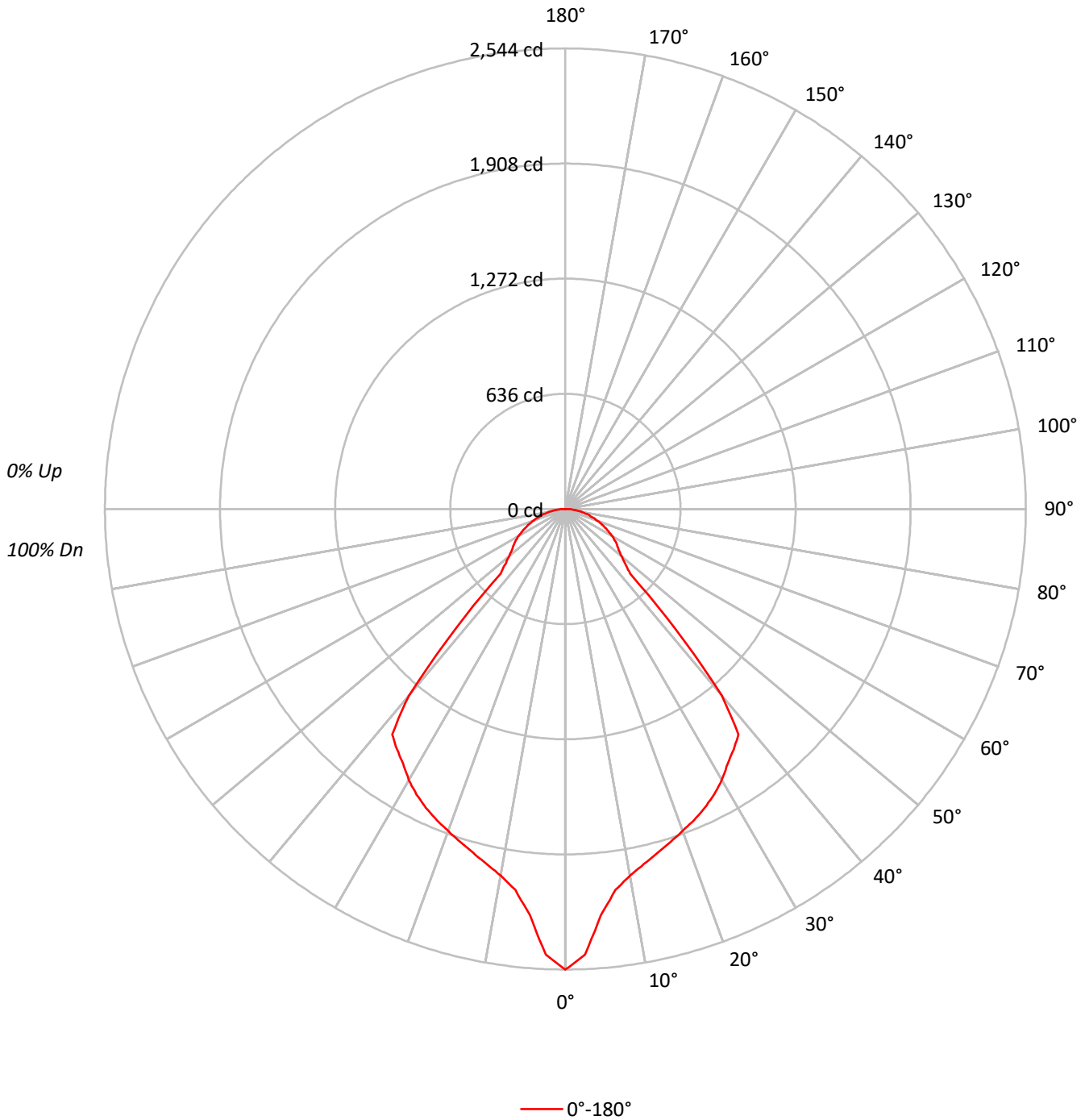
Lumens per Lamp: N/A
Luminaire Lumens: 3864.8 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.6
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: P600594
CATALOG NUMBER: 235-90-30K-LL5-UNV-STD-X-X-WHHR-SR-X

Luminous Intensity Polar Plot





TEST NUMBER: P600594

CATALOG NUMBER: 235-90-30K-LL5-UNV-STD-X-X-WHHR-SR-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°	19615
5°	17419
10°	16092
15°	15698
20°	15528
25°	15494
30°	15388
35°	15254
40°	13520
45°	5504
50°	4844
55°	4687
60°	4587
65°	4396
70°	4217
75°	4051
80°	3885
85°	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5504 cd/sqm



TEST NUMBER: P600594

CATALOG NUMBER: 235-90-30K-LL5-UNV-STD-X-X-WHHR-SR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	5.4
10°-20°	556.0	14.4
20°-30°	839.2	21.7
30°-40°	1000.7	25.9
40°-50°	517.5	13.4
50°-60°	312.1	8.1
60°-70°	239.2	6.2
70°-80°	143.5	3.7
80°-90°	47.1	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°	1604.8	41.5
0°-40°	2605.5	67.4
0°-60°	3435.1	88.9
0°-90°	3864.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3864.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2544	
5°	2251	210
15°	1967	556
25°	1822	839
35°	1621	1001
45°	505	517
55°	349	312
65°	241	239
75°	136	143
85°	43	47
90°	0	



TEST NUMBER: P600594

CATALOG NUMBER: 235-90-30K-LL5-UNV-STD-X-X-WHHR-SR-X

CANDELA DISTRIBUTION (FULL):

0°	
0°	2544.4
2.5°	2463.6
5°	2250.9
7.5°	2121.7
10°	2055.7
12.5°	2008.6
15°	1966.9
17.5°	1929.2
20°	1892.8
22.5°	1859.2
25°	1821.5
27.5°	1779.7
30°	1728.6
32.5°	1668.0
35°	1620.9
37.5°	1571.1
40°	1343.5
42.5°	895.2
45°	504.8
47.5°	449.6
50°	403.9
52.5°	371.6
55°	348.7
57.5°	324.4
60°	297.5
62.5°	269.2
65°	241.0
67.5°	214.1
70°	187.1
72.5°	160.2
75°	136.0
77.5°	110.4
80°	87.5
82.5°	64.6
85°	43.1
87.5°	21.5
90°	0.0

(END OF REPORT)