

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: P600621

Luminaire Tested: 235-90-35K-LL6-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600621
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: 235-90-35K-LL6-UNV-STD-X-X-WHHR-SR-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

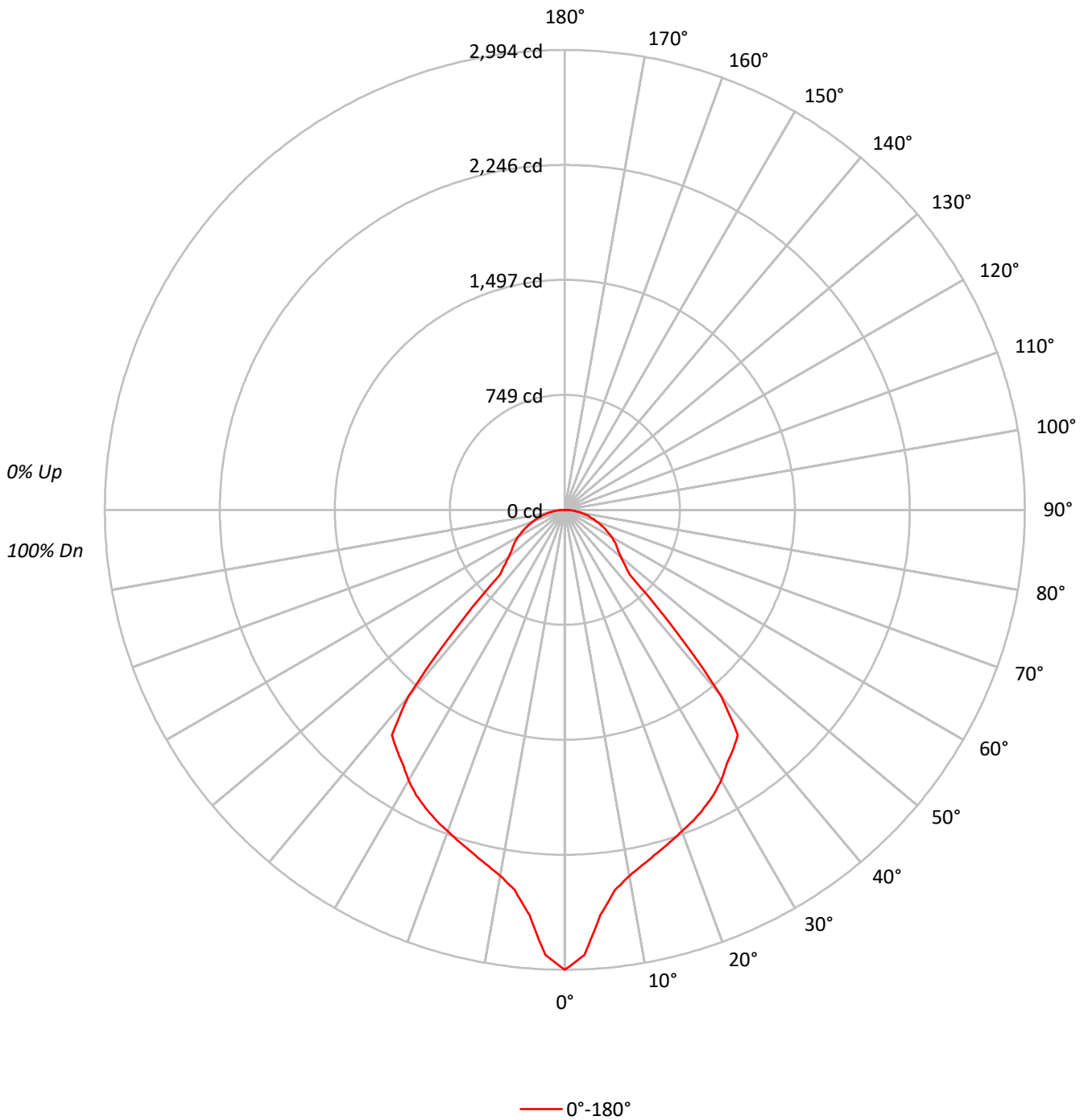
Lumens per Lamp: N/A
Luminaire Lumens: 4547.4 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 39.3
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: P600621
CATALOG NUMBER: 235-90-35K-LL6-UNV-STD-X-X-WHHR-SR-X

Luminous Intensity Polar Plot





TEST NUMBER: P600621

CATALOG NUMBER: 235-90-35K-LL6-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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68				68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	66	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	46	56	50	46	44				44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	52	46	42	41				41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37				37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	23079
5°	20495
10°	18934
15°	18470
20°	18271
25°	18229
30°	18104
35°	17948
40°	15908
45°	6476
50°	5699
55°	5515
60°	5398
65°	5171
70°	4963
75°	4766
80°	4573
85°	4485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6476 cd/sqm



TEST NUMBER: P600621

CATALOG NUMBER: 235-90-35K-LL6-UNV-STD-X-X-WHHR-SR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	5.4
10°-20°	654.2	14.4
20°-30°	987.4	21.7
30°-40°	1177.4	25.9
40°-50°	608.9	13.4
50°-60°	367.2	8.1
60°-70°	281.4	6.2
70°-80°	168.8	3.7
80°-90°	55.4	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°	1888.2	41.5
0°-40°	3065.6	67.4
0°-60°	4041.8	88.9
0°-90°	4547.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2994	
5°	2648	247
15°	2314	654
25°	2143	987
35°	1907	1177
45°	594	609
55°	410	367
65°	284	281
75°	160	169
85°	51	55
90°	0	



TEST NUMBER: P600621

CATALOG NUMBER: 235-90-35K-LL6-UNV-STD-X-X-WHHR-SR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	2993.7
2.5°	2898.7
5°	2648.4
7.5°	2496.4
10°	2418.8
12.5°	2363.3
15°	2314.2
17.5°	2269.9
20°	2227.1
22.5°	2187.5
25°	2143.1
27.5°	2094.0
30°	2033.8
32.5°	1962.6
35°	1907.1
37.5°	1848.5
40°	1580.8
42.5°	1053.4
45°	594.0
47.5°	529.1
50°	475.2
52.5°	437.2
55°	410.3
57.5°	381.7
60°	350.1
62.5°	316.8
65°	283.5
67.5°	251.9
70°	220.2
72.5°	188.5
75°	160.0
77.5°	129.9
80°	103.0
82.5°	76.0
85°	50.7
87.5°	25.3
90°	0.0

(END OF REPORT)