

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: P600620

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

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600620
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-FL-X
Description: SHAPER PrentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

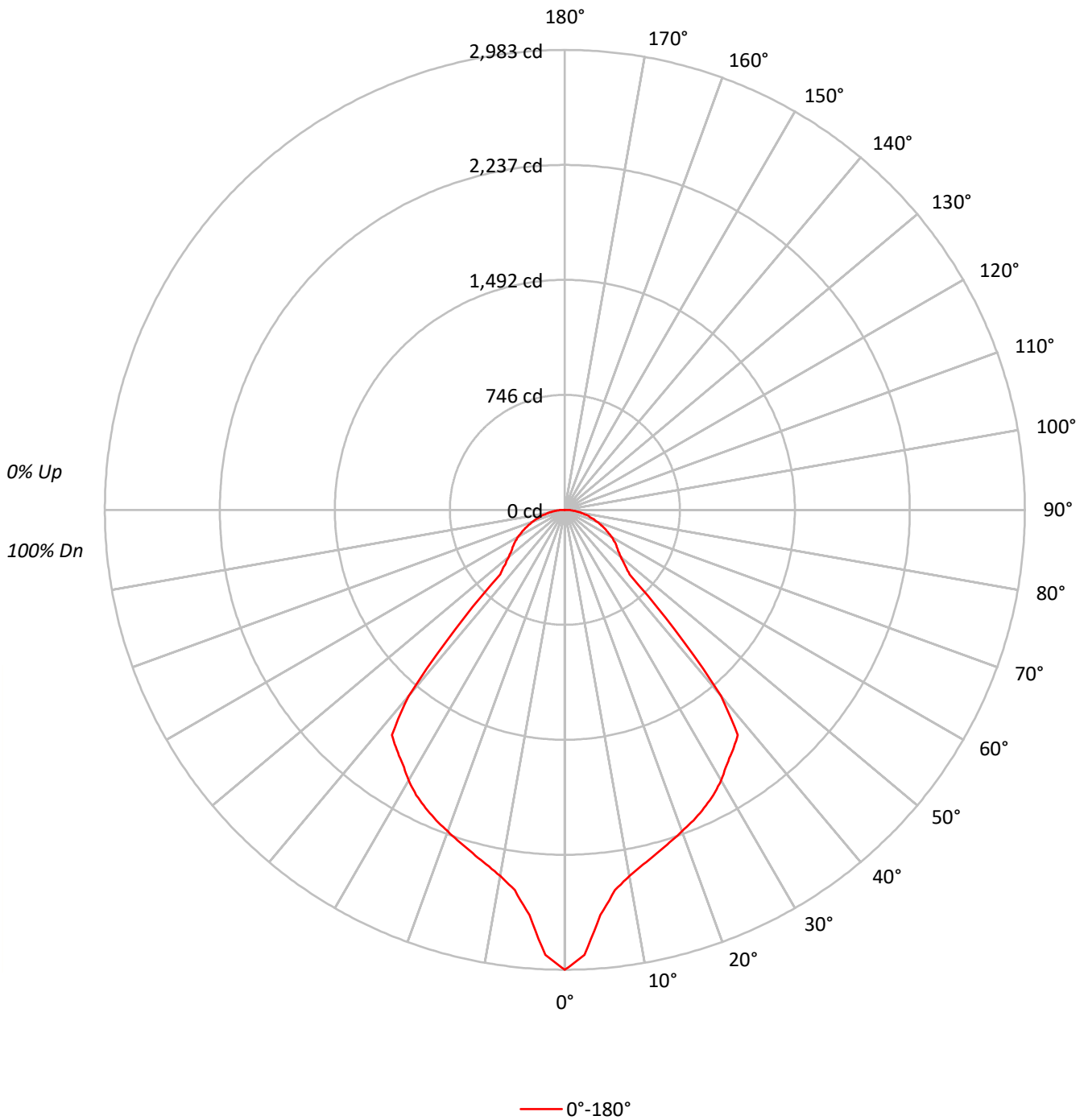
Lumens per Lamp: N/A
Luminaire Lumens: 4531.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.17
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P600620
CATALOG NUMBER: 235-90-35K-LL6-UNV-STD-X-X-WHHR-FL-X

Luminous Intensity Polar Plot





TEST NUMBER: P600620

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

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	22996
5°	20421
10°	18866
15°	18404
20°	18205
25°	18164
30°	18039
35°	17884
40°	15851
45°	6453
50°	5679
55°	5494
60°	5378
65°	5153
70°	4945
75°	4748
80°	4555
85°	4467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6453 cd/sqm



TEST NUMBER: P600620

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	5.4
10°-20°	651.9	14.4
20°-30°	983.8	21.7
30°-40°	1173.2	25.9
40°-50°	606.7	13.4
50°-60°	365.9	8.1
60°-70°	280.4	6.2
70°-80°	168.2	3.7
80°-90°	55.2	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°	1881.4	41.5
0°-40°	3054.6	67.4
0°-60°	4027.3	88.9
0°-90°	4531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4531.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2983	
5°	2639	246
15°	2306	652
25°	2135	984
35°	1900	1173
45°	592	607
55°	409	366
65°	282	280
75°	159	168
85°	50	55
90°	0	



TEST NUMBER: P600620

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	2983.0
2.5°	2888.3
5°	2638.9
7.5°	2487.4
10°	2410.1
12.5°	2354.8
15°	2305.9
17.5°	2261.7
20°	2219.1
22.5°	2179.6
25°	2135.4
27.5°	2086.5
30°	2026.5
32.5°	1955.5
35°	1900.3
37.5°	1841.9
40°	1575.1
42.5°	1049.6
45°	591.9
47.5°	527.2
50°	473.5
52.5°	435.6
55°	408.8
57.5°	380.4
60°	348.8
62.5°	315.7
65°	282.5
67.5°	250.9
70°	219.4
72.5°	187.8
75°	159.4
77.5°	129.4
80°	102.6
82.5°	75.8
85°	50.5
87.5°	25.3
90°	0.0

(END OF REPORT)