

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: PrentaLux

Report Number: P600576

Luminaire Tested: PRLX-225-90-27K-LL7-UNV-STD-X-X-WHHR-SR-X

Issue Date: 7/6/2022

Test Information

Test Method: LM-79-2019
Report Number: P600576
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: PentaLux
Catalog Number: PRLX-225-90-27K-LL7-UNV-STD-X-X-WHHR-SR-X
Description: PentaLux 200 SERIES 3D PRINTED LUMINAIRE
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5363.6 lumens
Efficiency: N/A
Efficacy: 96.8 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

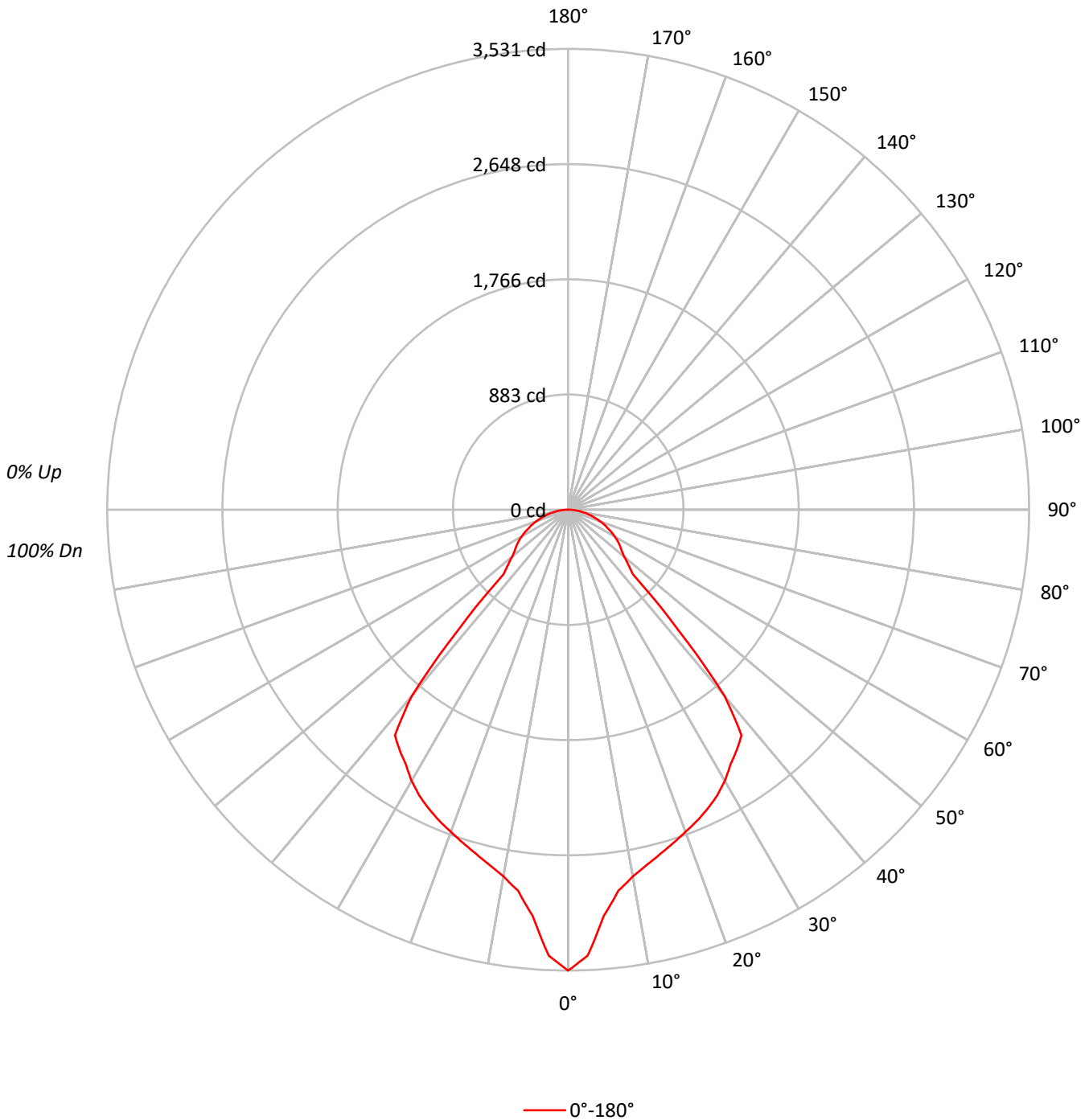
Input Watts (W): 55.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P600576

CATALOG NUMBER: PRLX-225-90-27K-LL7-UNV-STD-X-X-WHHR-SR-X

Luminous Intensity Polar Plot





TEST NUMBER: P600576

CATALOG NUMBER: PRLX-225-90-27K-LL7-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°	27222
5°	24174
10°	22333
15°	21785
20°	21550
25°	21502
30°	21354
35°	21169
40°	18764
45°	7638
50°	6722
55°	6504
60°	6366
65°	6100
70°	5854
75°	5621
80°	5390
85°	5289

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7638 cd/sqm



TEST NUMBER: P600576

CATALOG NUMBER: PRLX-225-90-27K-LL7-UNV-STD-X-X-WHHR-SR-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.9	5.4
10°-20°	771.6	14.4
20°-30°	1164.6	21.7
30°-40°	1388.8	25.9
40°-50°	718.2	13.4
50°-60°	433.2	8.1
60°-70°	331.9	6.2
70°-80°	199.1	3.7
80°-90°	65.3	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°	2227.1	41.5
0°-40°	3615.9	67.4
0°-60°	4767.2	88.9
0°-90°	5363.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5363.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3531	
5°	3124	291
15°	2730	772
25°	2528	1165
35°	2249	1389
45°	701	718
55°	484	433
65°	334	332
75°	189	199
85°	60	65
90°	0	



TEST NUMBER: P600576

CATALOG NUMBER: PRLX-225-90-27K-LL7-UNV-STD-X-X-WHHR-SR-X

CANDELA DISTRIBUTION (FULL):

	0°
0°	3531.1
2.5°	3419.0
5°	3123.8
7.5°	2944.5
10°	2852.9
12.5°	2787.5
15°	2729.6
17.5°	2677.3
20°	2626.8
22.5°	2580.1
25°	2527.8
27.5°	2469.9
30°	2398.9
32.5°	2314.8
35°	2249.4
37.5°	2180.3
40°	1864.6
42.5°	1242.4
45°	700.6
47.5°	624.0
50°	560.5
52.5°	515.7
55°	483.9
57.5°	450.3
60°	412.9
62.5°	373.7
65°	334.4
67.5°	297.1
70°	259.7
72.5°	222.3
75°	188.7
77.5°	153.2
80°	121.4
82.5°	89.7
85°	59.8
87.5°	29.9
90°	0.0

(END OF REPORT)