

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: P735813

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(5000K_L31_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-BLAK(5000K_L31_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL 2 - 31,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

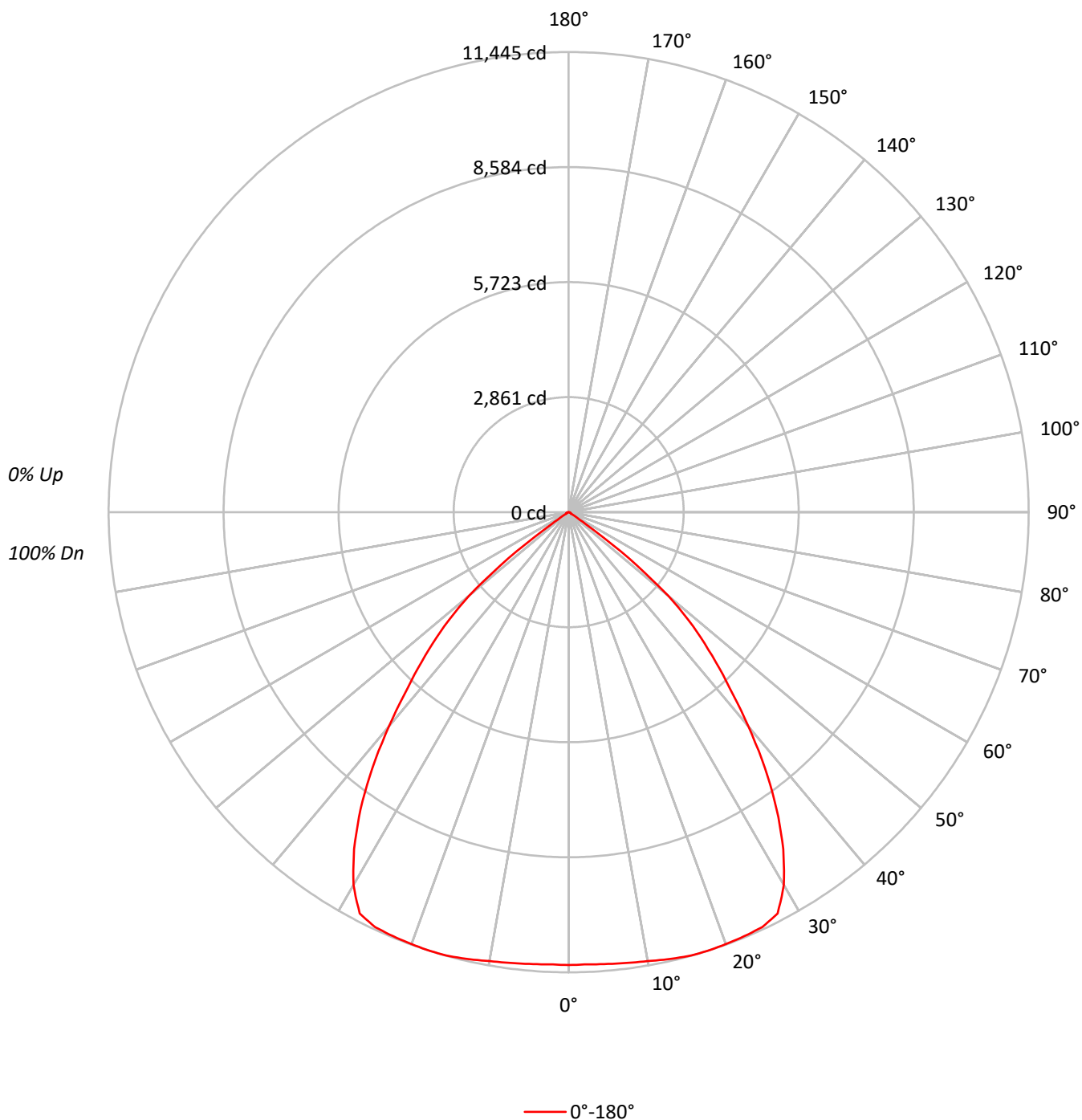
Lumens per Lamp: N/A
Luminaire Lumens: 19997.1 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 187.6
Input Voltage (V): 347
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20				
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
RCR																									
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100							
1	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	91							
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83							
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75							
4	93	84	77	72	91	82	76	72	80	75	71	78	74	70	76	72	69	67							
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61							
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	61	57	55							
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50							
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46							
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42							
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39							

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52891
5°	49792
10°	47555
15°	46020
20°	44539
25°	43319
30°	40097
35°	33516
40°	25799
45°	18856
50°	12265
55°	1964
60°	248
65°	221
70°	210
75°	182
80°	130
85°	65

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18856 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1078.5	5.4
10°-20°	3236.7	16.2
20°-30°	5214.4	26.1
30°-40°	5579.0	27.9
40°-50°	3883.4	19.4
50°-60°	898.1	4.5
60°-70°	53.0	0.3
70°-80°	40.4	0.2
80°-90°	13.6	0.1
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°	9529.6	47.7
0°-40°	15108.5	75.6
0°-60°	19890.1	99.5
0°-90°	19997.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19997.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11263	
5°	11280	###
15°	11435	3237
25°	11387	5214
35°	9024	5579
45°	5044	3883
55°	506	898
65°	53	53
75°	39	40
85°	12	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	11262.9
2.5°	11254.9
5°	11279.9
7.5°	11305.9
10°	11337.8
12.5°	11387.8
15°	11434.8
17.5°	11444.8
20°	11430.8
22.5°	11415.8
25°	11386.8
27.5°	11254.9
30°	10709.0
32.5°	9936.2
35°	9024.5
37.5°	8027.8
40°	6950.1
42.5°	5924.4
45°	5043.6
47.5°	4195.8
50°	3232.1
52.5°	1894.5
55°	505.9
57.5°	86.0
60°	62.0
62.5°	56.0
65°	53.0
67.5°	50.0
70°	48.0
72.5°	44.0
75°	39.0
77.5°	33.0
80°	26.0
82.5°	19.0
85°	12.0
87.5°	6.0
90°	0.0

(END OF REPORT)