

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: P735765

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(4000K_L24_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735765
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(4000K_L24_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

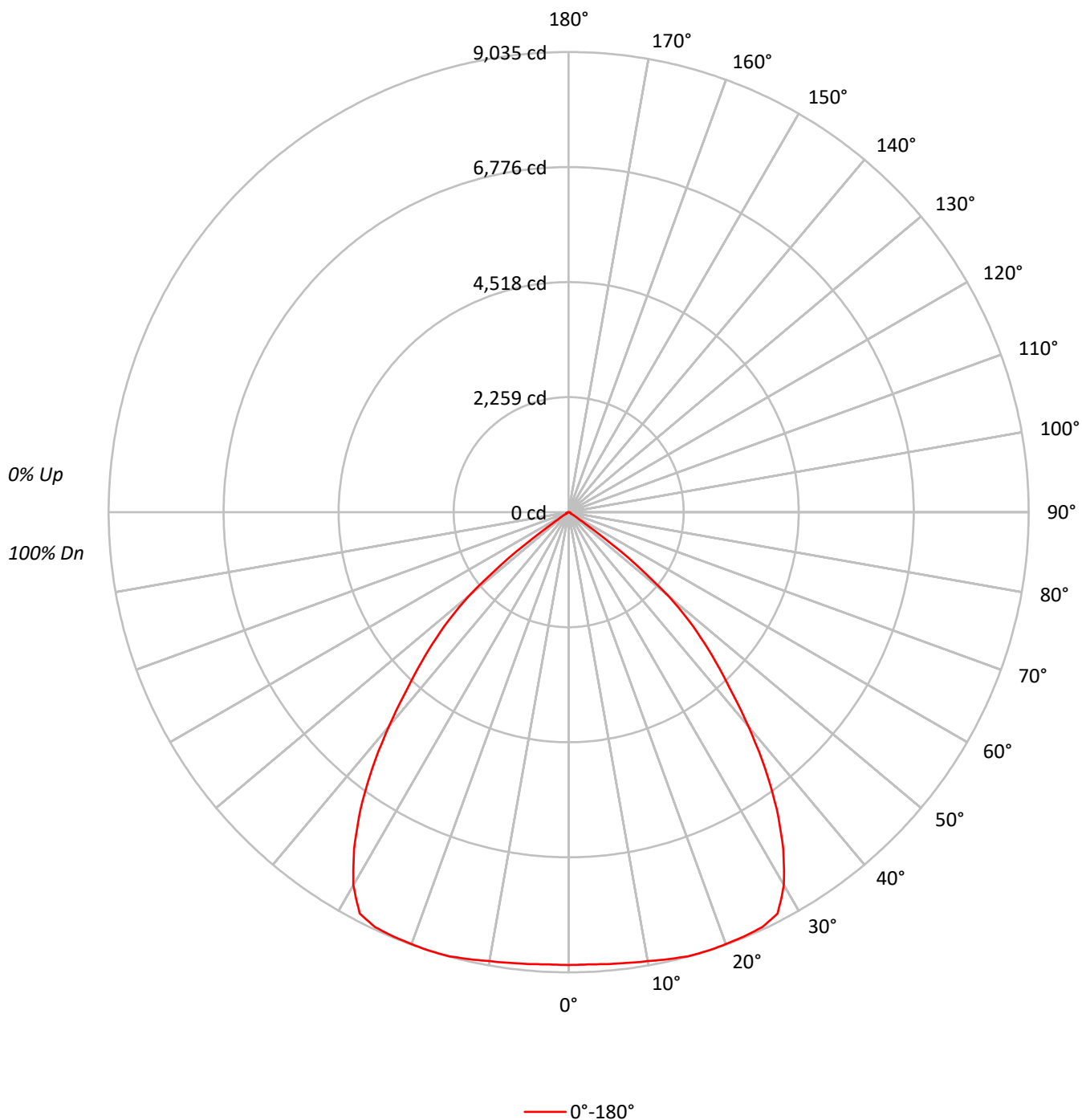
Lumens per Lamp: N/A
Luminaire Lumens: 15787.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 143.9
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				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	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°	41756
5°	39309
10°	37543
15°	36331
20°	35163
25°	34199
30°	31655
35°	26460
40°	20368
45°	14887
50°	9683
55°	1551
60°	196
65°	174
70°	166
75°	143
80°	103
85°	52

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	851.5	5.4
10°-20°	2555.2	16.2
20°-30°	4116.6	26.1
30°-40°	4404.4	27.9
40°-50°	3065.8	19.4
50°-60°	709.0	4.5
60°-70°	41.8	0.3
70°-80°	31.9	0.2
80°-90°	10.7	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°	7523.3	47.7
0°-40°	11927.7	75.6
0°-60°	15702.6	99.5
0°-90°	15787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15787.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8892	
5°	8905	851
15°	9027	2555
25°	8990	4117
35°	7125	4404
45°	3982	3066
55°	399	709
65°	42	42
75°	31	32
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	8891.7
2.5°	8885.4
5°	8905.1
7.5°	8925.6
10°	8950.9
12.5°	8990.3
15°	9027.4
17.5°	9035.3
20°	9024.3
22.5°	9012.4
25°	8989.5
27.5°	8885.4
30°	8454.4
32.5°	7844.3
35°	7124.6
37.5°	6337.7
40°	5486.9
42.5°	4677.1
45°	3981.8
47.5°	3312.5
50°	2551.6
52.5°	1495.6
55°	399.4
57.5°	67.9
60°	48.9
62.5°	44.2
65°	41.8
67.5°	39.5
70°	37.9
72.5°	34.7
75°	30.8
77.5°	26.0
80°	20.5
82.5°	15.0
85°	9.5
87.5°	4.7
90°	0.0

(END OF REPORT)