

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: P735763

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(4000K_L24_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735763
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: Prenalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-BLAK(4000K_L24_120V)
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

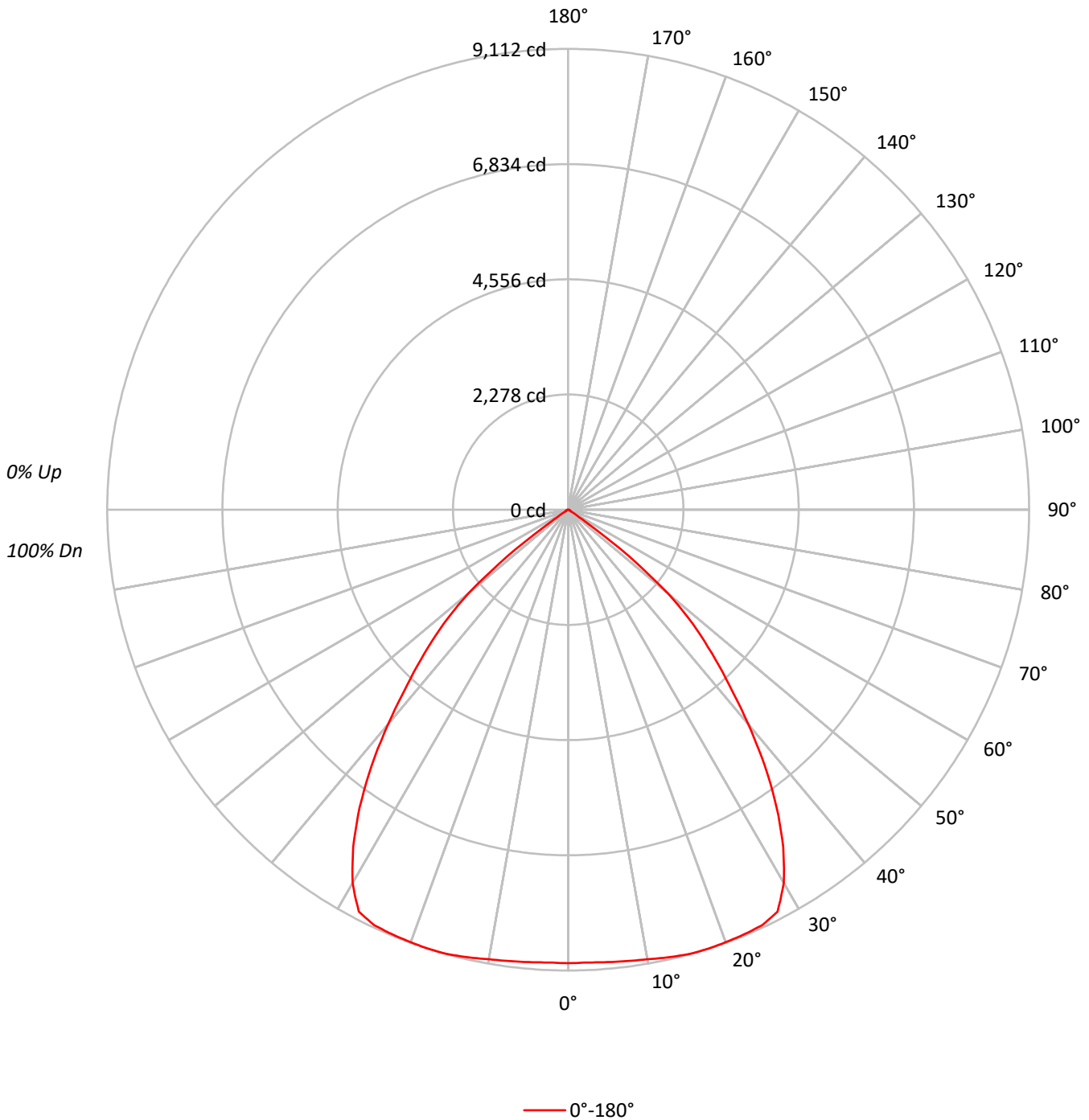
Lumens per Lamp: N/A
Luminaire Lumens: 15920.4 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 147.2
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

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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°	42109
5°	39641
10°	37860
15°	36638
20°	35459
25°	34488
30°	31923
35°	26683
40°	20540
45°	15012
50°	9765
55°	1563
60°	197
65°	176
70°	167
75°	144
80°	104
85°	52

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15012 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.6	5.4
10°-20°	2576.8	16.2
20°-30°	4151.4	26.1
30°-40°	4441.6	27.9
40°-50°	3091.7	19.4
50°-60°	715.0	4.5
60°-70°	42.2	0.3
70°-80°	32.1	0.2
80°-90°	10.8	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°	7586.9	47.7
0°-40°	12028.5	75.6
0°-60°	15835.2	99.5
0°-90°	15920.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15920.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8967	
5°	8980	859
15°	9104	2577
25°	9066	4151
35°	7185	4442
45°	4015	3092
55°	403	715
65°	42	42
75°	31	32
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8966.8
2.5°	8960.4
5°	8980.3
7.5°	9001.0
10°	9026.5
12.5°	9066.3
15°	9103.7
17.5°	9111.7
20°	9100.5
22.5°	9088.6
25°	9065.5
27.5°	8960.4
30°	8525.9
32.5°	7910.6
35°	7184.7
37.5°	6391.2
40°	5533.2
42.5°	4716.6
45°	4015.4
47.5°	3340.5
50°	2573.2
52.5°	1508.3
55°	402.7
57.5°	68.4
60°	49.3
62.5°	44.6
65°	42.2
67.5°	39.8
70°	38.2
72.5°	35.0
75°	31.0
77.5°	26.3
80°	20.7
82.5°	15.1
85°	9.6
87.5°	4.8
90°	0.0

(END OF REPORT)