

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: P735811

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-BLAK(5000K_L31_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735811
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: Pentalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-BLAK(5000K_L31_120V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

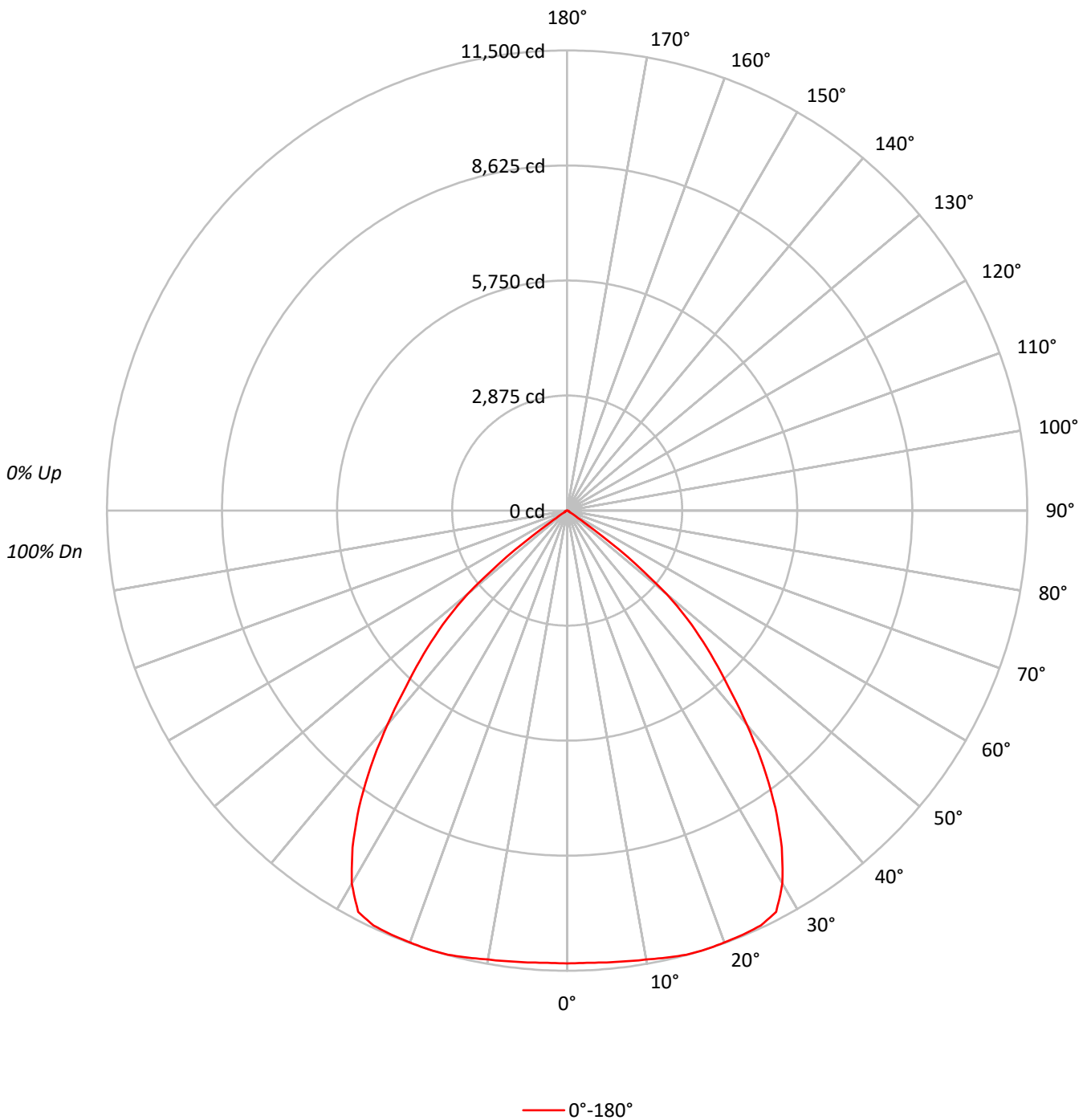
Lumens per Lamp: N/A
Luminaire Lumens: 20094.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 193.9
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°	53149
5°	50034
10°	47786
15°	46244
20°	44756
25°	43530
30°	40293
35°	33679
40°	25925
45°	18948
50°	12325
55°	1973
60°	250
65°	222
70°	211
75°	182
80°	131
85°	66

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18948 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1083.8	5.4
10°-20°	3252.4	16.2
20°-30°	5239.8	26.1
30°-40°	5606.1	27.9
40°-50°	3902.3	19.4
50°-60°	902.5	4.5
60°-70°	53.3	0.3
70°-80°	40.6	0.2
80°-90°	13.7	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°	9576.0	47.7
0°-40°	15182.1	75.6
0°-60°	19986.9	99.5
0°-90°	20094.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20094.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11318	
5°	11335	###
15°	11490	3252
25°	11442	5240
35°	9068	5606
45°	5068	3902
55°	508	902
65°	53	53
75°	39	41
85°	12	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	11317.7
2.5°	11309.7
5°	11334.8
7.5°	11360.9
10°	11393.0
12.5°	11443.3
15°	11490.5
17.5°	11500.5
20°	11486.5
22.5°	11471.4
25°	11442.3
27.5°	11309.7
30°	10761.2
32.5°	9984.6
35°	9068.4
37.5°	8066.8
40°	6983.9
42.5°	5953.2
45°	5068.2
47.5°	4216.3
50°	3247.8
52.5°	1903.7
55°	508.3
57.5°	86.4
60°	62.3
62.5°	56.3
65°	53.2
67.5°	50.2
70°	48.2
72.5°	44.2
75°	39.2
77.5°	33.2
80°	26.1
82.5°	19.1
85°	12.1
87.5°	6.0
90°	0.0

(END OF REPORT)