

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: P735852

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L36_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L36_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

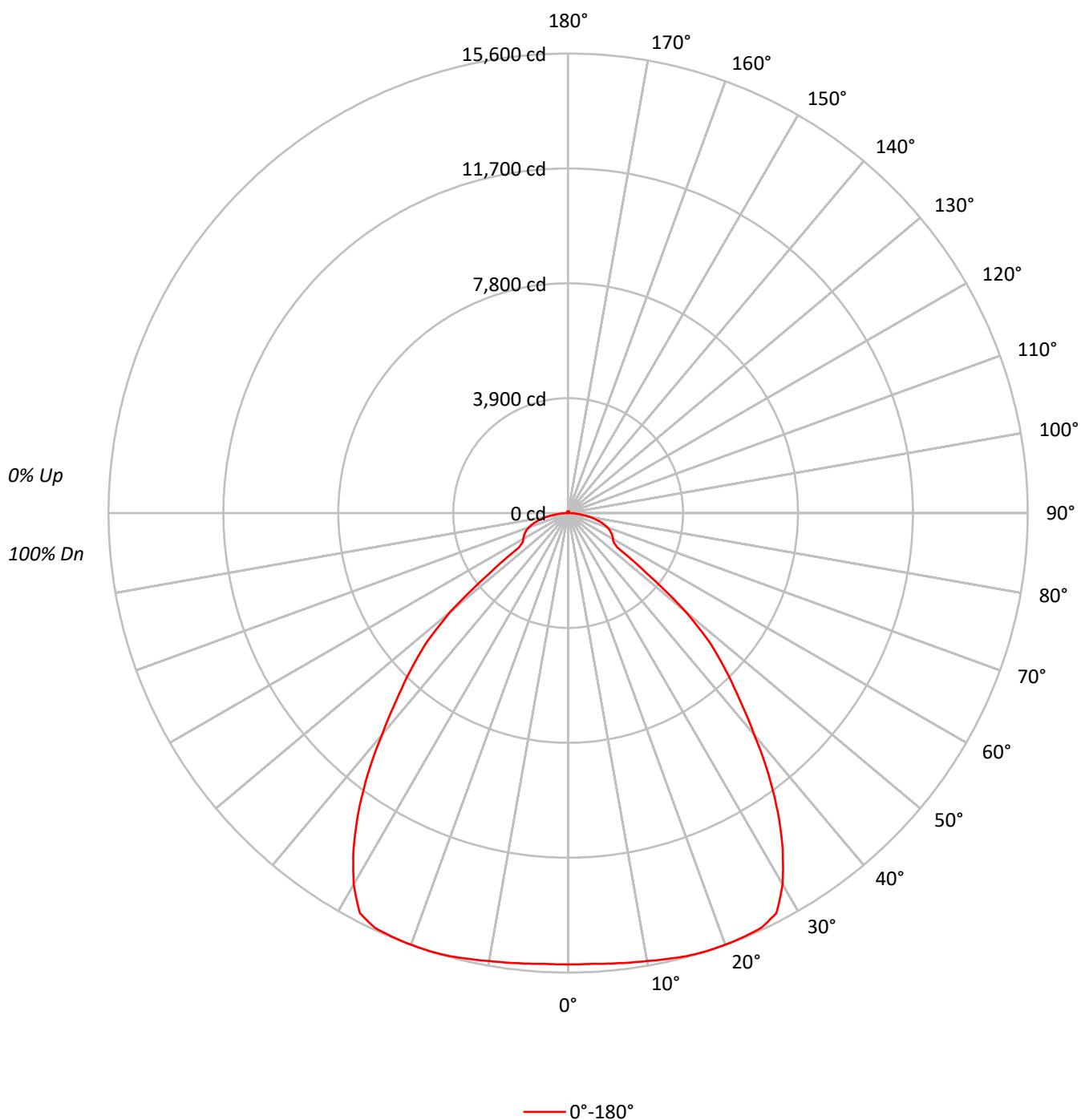
Lumens per Lamp: N/A
Luminaire Lumens: 32138.7 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 228.8
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				0
RW	70	50	30	10	70	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		100
1	111	107	103	100	108	105	101	98	100	98	95		96	94	92		88
2	103	96	90	86	100	94	89	84	91	86	83		87	84	81		77
3	95	86	80	74	93	85	79	74	82	77	72		79	75	71		68
4	88	78	71	65	86	77	70	65	75	69	64		72	67	63		60
5	82	71	64	58	80	70	63	57	68	62	57		66	61	56		54
6	77	65	57	52	75	64	57	51	62	56	51		61	55	51		48
7	72	60	52	47	70	59	52	46	58	51	46		56	50	46		44
8	67	55	47	42	66	54	47	42	53	47	42		52	46	42		40
9	63	51	44	39	62	50	43	38	49	43	38		48	42	38		36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71968
5°	67775
10°	64783
15°	62663
20°	60766
25°	59094
30°	54513
35°	46099
40°	36513
45°	28350
50°	19804
55°	7908
60°	7036
65°	6751
70°	6207
75°	5170
80°	3605
85°	1781

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28350 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1468.6	4.6
10°-20°	4410.3	13.7
20°-30°	7105.4	22.1
30°-40°	7690.3	23.9
40°-50°	5814.7	18.1
50°-60°	2381.2	7.4
60°-70°	1593.4	5.0
70°-80°	1154.3	3.6
80°-90°	367.1	1.1
90°-100°	10.2	0.0
100°-110°	13.3	0.0
110°-120°	17.0	0.1
120°-130°	20.6	0.1
130°-140°	26.6	0.1
140°-150°	32.5	0.1
150°-160°	23.8	0.1
160°-170°	7.1	0.0
170°-180°	2.3	0.0
0°-30°	12984.3	40.4
0°-40°	20674.6	64.3
0°-60°	28870.5	89.8
0°-90°	31985.3	99.5
90°-120°	40.5	0.1
90°-150°	120.2	0.4
90°-180°	153.0	0.5
0°-180°	32138.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15325	
5°	15354	###
15°	15570	4410
25°	15534	7105
35°	12412	7690
45°	7583	5815
55°	2037	2381
65°	1619	1593
75°	1111	1154
85°	326	347
90°	11	23
95°	9	8
105°	13	13
115°	17	17
125°	23	21
135°	34	27
145°	52	33
155°	53	24
165°	23	7
175°	24	2
180°	26	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15325.2
2.5°	15322.9
5°	15353.8
7.5°	15397.3
10°	15445.4
12.5°	15509.5
15°	15570.2
17.5°	15600.0
20°	15595.4
22.5°	15576.0
25°	15533.6
27.5°	15313.8
30°	14559.2
32.5°	13556.3
35°	12412.4
37.5°	11170.2
40°	9836.3
42.5°	8629.5
45°	7583.0
47.5°	6535.4
50°	5218.7
52.5°	3399.4
55°	2036.9
57.5°	1821.6
60°	1756.4
62.5°	1695.7
65°	1619.0
67.5°	1528.5
70°	1416.3
72.5°	1276.6
75°	1110.6
77.5°	919.4
80°	720.2
82.5°	522.1
85°	326.3
87.5°	135.1
90°	11.4
92.5°	8.0
95°	9.2
97.5°	9.2
100°	10.3
102.5°	11.4
105°	12.6
107.5°	13.7
110°	14.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	16.0
115°	17.2
117.5°	18.3
120°	19.5
122.5°	20.6
125°	22.9
127.5°	25.2
130°	27.5
132.5°	30.9
135°	34.3
137.5°	37.8
140°	42.4
142.5°	45.8
145°	51.5
147.5°	58.4
150°	64.1
152.5°	59.5
155°	52.7
157.5°	41.2
160°	33.2
162.5°	25.2
165°	22.9
167.5°	22.9
170°	22.9
172.5°	24.0
175°	24.0
177.5°	25.2
180°	26.3

(END OF REPORT)