

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: P735832

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(5000K_L36_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-TRWH(5000K_L36_120V)
Description: PRENALLUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

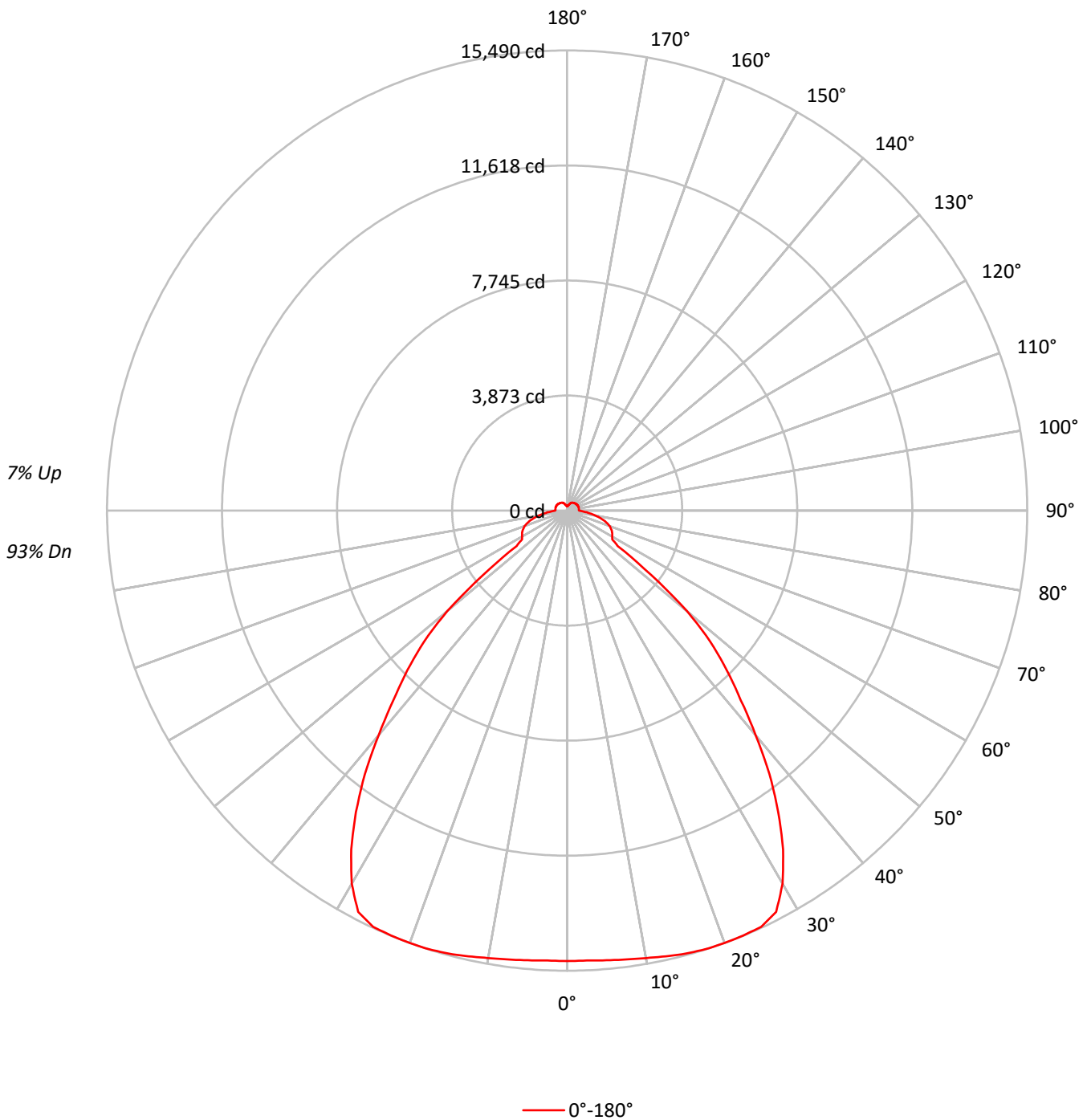
Lumens per Lamp: N/A
Luminaire Lumens: 34797.1 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 238.5
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	117	117	117	117	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	109	105	101	98	105	102	98	95	96	94	91	91	89	87	87	85	84	81
2	101	94	88	83	98	91	86	81	87	82	79	83	79	76	79	76	73	71
3	93	84	77	72	90	82	76	71	78	73	69	75	70	67	72	68	65	63
4	86	76	69	63	84	74	67	62	71	65	60	68	63	59	65	61	58	55
5	80	69	61	56	78	68	60	55	65	59	54	62	57	53	60	55	52	50
6	75	63	55	50	73	62	54	49	60	53	48	57	52	47	55	50	46	44
7	70	58	50	45	68	57	49	44	55	48	43	53	47	43	51	46	42	40
8	65	53	46	40	64	52	45	40	51	44	39	49	43	39	47	42	38	36
9	61	49	42	37	60	48	41	36	47	40	36	45	40	35	44	39	35	33
10	58	46	38	34	56	45	38	33	43	37	33	42	37	33	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71208
5°	67073
10°	64152
15°	62137
20°	60356
25°	58799
30°	54296
35°	46030
40°	36649
45°	28444
50°	19977
55°	8067
60°	7023
65°	6938
70°	6663
75°	5962
80°	4832
85°	3529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28444 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1453.6	4.2
10°-20°	4374.0	12.6
20°-30°	7066.9	20.3
30°-40°	7685.2	22.1
40°-50°	5833.7	16.8
50°-60°	2423.2	7.0
60°-70°	1640.0	4.7
70°-80°	1337.3	3.8
80°-90°	716.9	2.1
90°-100°	433.5	1.2
100°-110°	425.5	1.2
110°-120°	392.7	1.1
120°-130°	338.3	1.0
130°-140°	272.6	0.8
140°-150°	203.8	0.6
150°-160°	127.7	0.4
160°-170°	57.1	0.2
170°-180°	15.3	0.0
0°-30°	12894.6	37.1
0°-40°	20579.7	59.1
0°-60°	28836.6	82.9
0°-90°	32530.8	93.5
90°-120°	1251.6	3.6
90°-150°	2066.3	5.9
90°-180°	2266.0	6.5
0°-180°	34797.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15163	
5°	15195	###
15°	15440	4374
25°	15456	7067
35°	12394	7685
45°	7608	5834
55°	2078	2423
65°	1664	1640
75°	1281	1337
85°	647	594
90°	400	231
95°	396	325
105°	403	425
115°	396	393
125°	378	338
135°	352	273
145°	323	204
155°	275	128
165°	196	57
175°	156	15
180°	149	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	15163.2
2.5°	15160.8
5°	15194.9
7.5°	15239.6
10°	15294.9
12.5°	15366.6
15°	15439.5
17.5°	15480.7
20°	15490.1
22.5°	15481.8
25°	15456.0
27.5°	15230.2
30°	14501.2
32.5°	13529.9
35°	12393.9
37.5°	11186.3
40°	9872.8
42.5°	8653.4
45°	7608.0
47.5°	6543.9
50°	5264.5
52.5°	3554.7
55°	2077.8
57.5°	1797.9
60°	1753.3
62.5°	1713.3
65°	1663.9
67.5°	1600.4
70°	1520.4
72.5°	1413.4
75°	1280.6
77.5°	1127.7
80°	965.4
82.5°	805.5
85°	646.7
87.5°	496.2
90°	399.8
92.5°	392.7
95°	396.3
97.5°	399.8
100°	401.0
102.5°	402.2
105°	403.3
107.5°	402.2
110°	401.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	398.6
115°	396.3
117.5°	392.7
120°	388.0
122.5°	383.3
125°	377.5
127.5°	370.4
130°	364.5
132.5°	358.6
135°	351.6
137.5°	344.5
140°	338.7
142.5°	331.6
145°	323.4
147.5°	316.3
150°	309.3
152.5°	294.0
155°	275.2
157.5°	254.0
160°	234.0
162.5°	214.0
165°	196.4
167.5°	181.1
170°	165.8
172.5°	162.3
175°	156.4
177.5°	151.7
180°	149.3

(END OF REPORT)