

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: P735787

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-TRWH(4000K_L36_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735787
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(4000K_L36_120V)
Description: PRENATALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 3 - 36,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

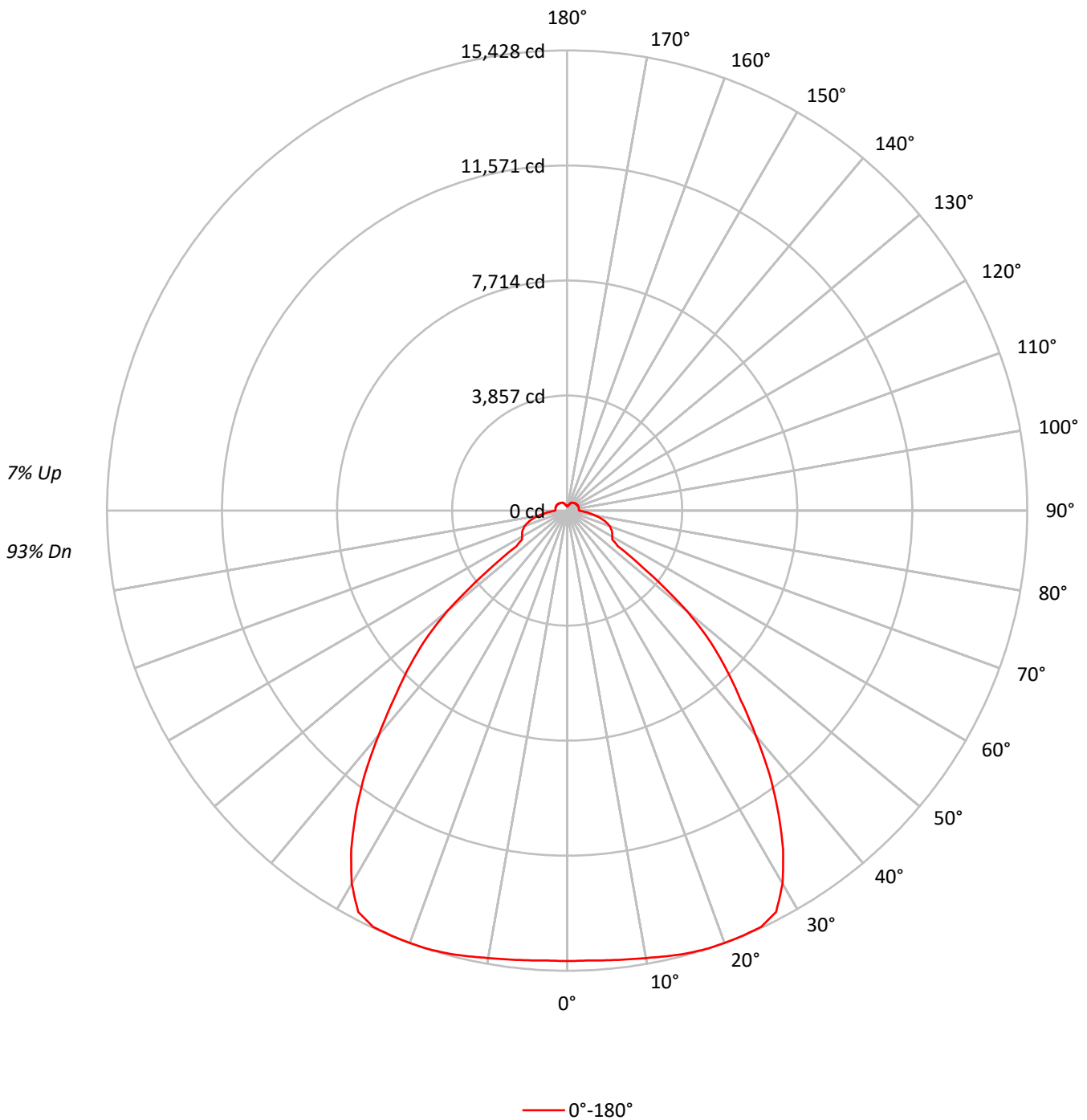
Lumens per Lamp: N/A
Luminaire Lumens: 34658.1 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 239.9
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	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°	70923
5°	66805
10°	63895
15°	61888
20°	60115
25°	58564
30°	54079
35°	45846
40°	36502
45°	28330
50°	19897
55°	8035
60°	6995
65°	6910
70°	6637
75°	5938
80°	4813
85°	3515

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28330 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1447.8	4.2
10°-20°	4356.5	12.6
20°-30°	7038.7	20.3
30°-40°	7654.5	22.1
40°-50°	5810.4	16.8
50°-60°	2413.5	7.0
60°-70°	1633.4	4.7
70°-80°	1332.0	3.8
80°-90°	714.0	2.1
90°-100°	431.8	1.2
100°-110°	423.7	1.2
110°-120°	391.1	1.1
120°-130°	337.0	1.0
130°-140°	271.5	0.8
140°-150°	203.0	0.6
150°-160°	127.2	0.4
160°-170°	56.8	0.2
170°-180°	15.2	0.0
0°-30°	12843.0	37.1
0°-40°	20497.5	59.1
0°-60°	28721.3	82.9
0°-90°	32400.7	93.5
90°-120°	1246.6	3.6
90°-150°	2058.1	5.9
90°-180°	2257.0	6.5
0°-180°	34658.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15102	
5°	15134	###
15°	15378	4357
25°	15394	7039
35°	12344	7654
45°	7578	5810
55°	2070	2414
65°	1657	1633
75°	1275	1332
85°	644	592
90°	398	230
95°	395	324
105°	402	424
115°	395	391
125°	376	337
135°	350	271
145°	322	203
155°	274	127
165°	196	57
175°	156	15
180°	149	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	15102.5
2.5°	15100.2
5°	15134.2
7.5°	15178.7
10°	15233.7
12.5°	15305.2
15°	15377.8
17.5°	15418.8
20°	15428.1
22.5°	15419.9
25°	15394.2
27.5°	15169.3
30°	14443.2
32.5°	13475.8
35°	12344.4
37.5°	11141.6
40°	9833.3
42.5°	8618.8
45°	7577.6
47.5°	6517.7
50°	5243.4
52.5°	3540.5
55°	2069.5
57.5°	1790.8
60°	1746.3
62.5°	1706.4
65°	1657.2
67.5°	1594.0
70°	1514.4
72.5°	1407.8
75°	1275.4
77.5°	1123.2
80°	961.6
82.5°	802.3
85°	644.2
87.5°	494.2
90°	398.2
92.5°	391.2
95°	394.7
97.5°	398.2
100°	399.4
102.5°	400.5
105°	401.7
107.5°	400.5
110°	399.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	397.0
115°	394.7
117.5°	391.2
120°	386.5
122.5°	381.8
125°	376.0
127.5°	368.9
130°	363.1
132.5°	357.2
135°	350.2
137.5°	343.2
140°	337.3
142.5°	330.3
145°	322.1
147.5°	315.1
150°	308.0
152.5°	292.8
155°	274.1
157.5°	253.0
160°	233.1
162.5°	213.2
165°	195.6
167.5°	180.4
170°	165.1
172.5°	161.6
175°	155.8
177.5°	151.1
180°	148.7

(END OF REPORT)