

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: P735781

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

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735781
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_L24_120V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL 1 - 24,000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

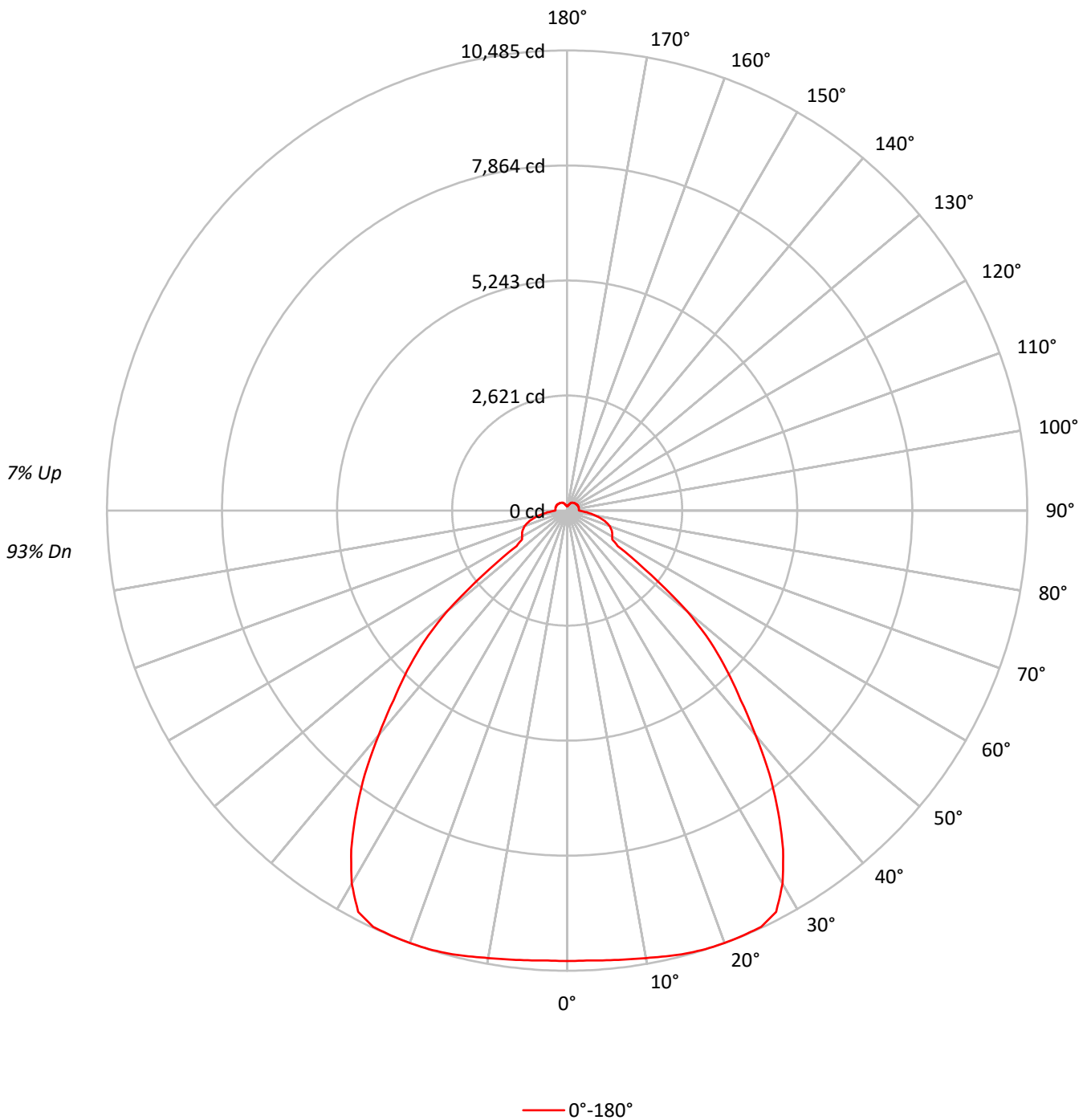
Lumens per Lamp: N/A
Luminaire Lumens: 23552.8 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 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	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°	48198
5°	45399
10°	43422
15°	42058
20°	40853
25°	39799
30°	36751
35°	31156
40°	24806
45°	19253
50°	13522
55°	5460
60°	4754
65°	4696
70°	4510
75°	4035
80°	3270
85°	2389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19253 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.9	4.2
10°-20°	2960.6	12.6
20°-30°	4783.3	20.3
30°-40°	5201.8	22.1
40°-50°	3948.6	16.8
50°-60°	1640.2	7.0
60°-70°	1110.0	4.7
70°-80°	905.2	3.8
80°-90°	485.2	2.1
90°-100°	293.4	1.2
100°-110°	288.0	1.2
110°-120°	265.8	1.1
120°-130°	229.0	1.0
130°-140°	184.5	0.8
140°-150°	137.9	0.6
150°-160°	86.4	0.4
160°-170°	38.6	0.2
170°-180°	10.3	0.0
0°-30°	8727.8	37.1
0°-40°	13929.6	59.1
0°-60°	19518.4	82.9
0°-90°	22018.8	93.5
90°-120°	847.1	3.6
90°-150°	1398.6	5.9
90°-180°	1534.0	6.5
0°-180°	23552.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10263	
5°	10285	984
15°	10450	2961
25°	10462	4783
35°	8389	5202
45°	5150	3949
55°	1406	1640
65°	1126	1110
75°	867	905
85°	438	402
90°	271	157
95°	268	220
105°	273	288
115°	268	266
125°	256	229
135°	238	185
145°	219	138
155°	186	86
165°	133	39
175°	106	10
180°	101	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	10263.4
2.5°	10261.8
5°	10284.8
7.5°	10315.1
10°	10352.5
12.5°	10401.0
15°	10450.4
17.5°	10478.2
20°	10484.6
22.5°	10479.0
25°	10461.5
27.5°	10308.7
30°	9815.3
32.5°	9157.8
35°	8389.0
37.5°	7571.6
40°	6682.5
42.5°	5857.2
45°	5149.6
47.5°	4429.3
50°	3563.3
52.5°	2406.1
55°	1406.4
57.5°	1217.0
60°	1186.7
62.5°	1159.7
65°	1126.2
67.5°	1083.2
70°	1029.1
72.5°	956.7
75°	866.8
77.5°	763.3
80°	653.4
82.5°	545.2
85°	437.8
87.5°	335.9
90°	270.6
92.5°	265.8
95°	268.2
97.5°	270.6
100°	271.4
102.5°	272.2
105°	273.0
107.5°	272.2
110°	271.4

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	269.8
115°	268.2
117.5°	265.8
120°	262.7
122.5°	259.5
125°	255.5
127.5°	250.7
130°	246.7
132.5°	242.8
135°	238.0
137.5°	233.2
140°	229.2
142.5°	224.4
145°	218.9
147.5°	214.1
150°	209.3
152.5°	199.0
155°	186.2
157.5°	171.9
160°	158.4
162.5°	144.9
165°	132.9
167.5°	122.6
170°	112.2
172.5°	109.8
175°	105.9
177.5°	102.7
180°	101.1

(END OF REPORT)