

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: P701306

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(5000K_L18_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-TRWH(5000K_L18_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 18,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

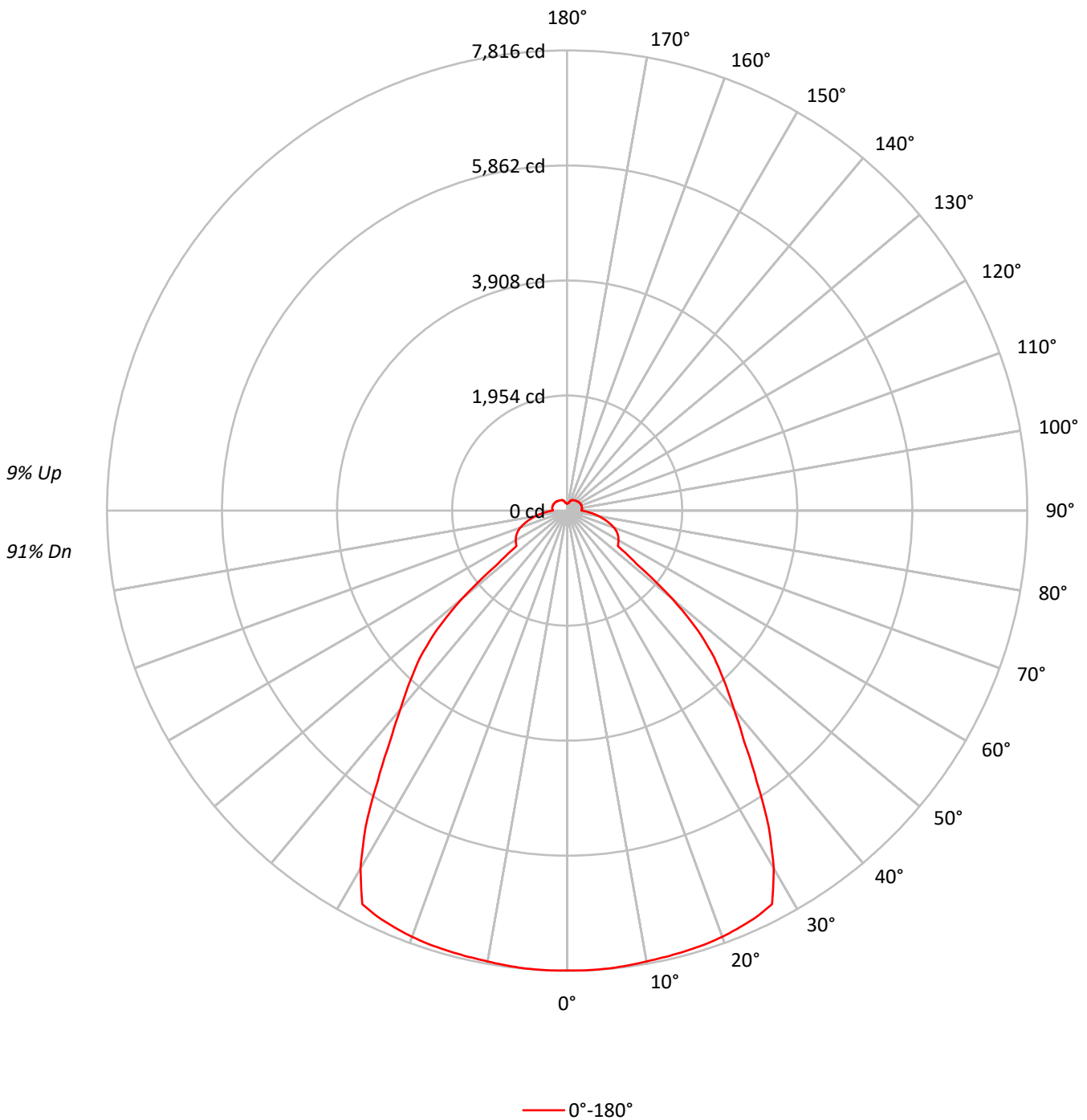
Lumens per Lamp: N/A
Luminaire Lumens: 17351.6 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 118.4
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	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	108	104	100	97	104	101	97	94	95	92	90	90	88	85	85	83	82	79
2	100	93	87	82	97	90	85	80	85	81	77	81	77	74	77	74	71	69
3	92	83	76	71	89	81	75	69	77	72	67	73	69	65	70	66	63	61
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	54
5	80	68	60	55	77	67	59	54	64	58	53	61	56	51	58	54	50	48
6	74	62	55	49	72	61	54	48	59	52	47	56	51	46	54	49	45	43
7	69	57	49	44	67	56	49	44	54	47	43	52	46	42	50	45	41	39
8	65	53	45	40	63	52	44	39	50	43	39	48	42	38	46	41	37	36
9	61	49	41	36	59	48	41	36	46	40	35	45	39	35	43	38	34	32
10	57	45	38	33	56	44	38	33	43	37	32	42	36	32	40	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58382
5°	53972
10°	50316
15°	47495
20°	45173
25°	43101
30°	38705
35°	30385
40°	23605
45°	18855
50°	12509
55°	5709
60°	5591
65°	5397
70°	5016
75°	4356
80°	3574
85°	2742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18855 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	744.3	4.3
10°-20°	2194.8	12.6
20°-30°	3485.1	20.1
30°-40°	3522.0	20.3
40°-50°	2665.2	15.4
50°-60°	1166.5	6.7
60°-70°	931.6	5.4
70°-80°	738.8	4.3
80°-90°	426.1	2.5
90°-100°	274.5	1.6
100°-110°	273.1	1.6
110°-120°	253.3	1.5
120°-130°	219.2	1.3
130°-140°	177.4	1.0
140°-150°	133.4	0.8
150°-160°	90.2	0.5
160°-170°	44.2	0.3
170°-180°	12.0	0.1
0°-30°	6424.2	37.0
0°-40°	9946.2	57.3
0°-60°	13777.9	79.4
0°-90°	15874.3	91.5
90°-120°	800.8	4.6
90°-150°	1330.9	7.7
90°-180°	1477.0	8.5
0°-180°	17351.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7812	
5°	7810	744
15°	7749	2195
25°	7614	3485
35°	5614	3522
45°	3531	2665
55°	1051	1167
65°	946	932
75°	702	739
85°	390	350
90°	240	143
95°	253	207
105°	259	273
115°	256	253
125°	245	219
135°	229	177
145°	212	133
155°	196	90
165°	150	44
175°	122	12
180°	118	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7811.7
2.5°	7816.4
5°	7810.5
7.5°	7795.2
10°	7775.2
12.5°	7762.2
15°	7749.3
17.5°	7732.8
20°	7704.5
22.5°	7663.2
25°	7613.8
27.5°	7537.2
30°	7021.1
32.5°	6369.5
35°	5614.3
37.5°	4939.2
40°	4407.8
42.5°	3962.4
45°	3531.2
47.5°	3011.6
50°	2331.7
52.5°	1495.2
55°	1051.0
57.5°	1029.8
60°	1008.6
62.5°	980.3
65°	946.1
67.5°	903.7
70°	847.2
72.5°	776.5
75°	702.2
77.5°	623.3
80°	544.3
82.5°	467.8
85°	390.0
87.5°	313.4
90°	240.4
92.5°	248.6
95°	253.3
97.5°	255.7
100°	256.9
102.5°	258.0
105°	259.2
107.5°	258.0
110°	258.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	256.9
115°	255.7
117.5°	253.3
120°	251.0
122.5°	247.4
125°	245.1
127.5°	240.4
130°	236.8
132.5°	233.3
135°	228.6
137.5°	225.0
140°	220.3
142.5°	216.8
145°	212.1
147.5°	207.4
150°	203.8
152.5°	200.3
155°	195.6
157.5°	188.5
160°	180.3
162.5°	168.5
165°	149.6
167.5°	137.9
170°	132.0
172.5°	127.2
175°	122.5
177.5°	120.2
180°	117.8

(END OF REPORT)