

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: P701304

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(5000K_L12_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701304
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_L12_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 12,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

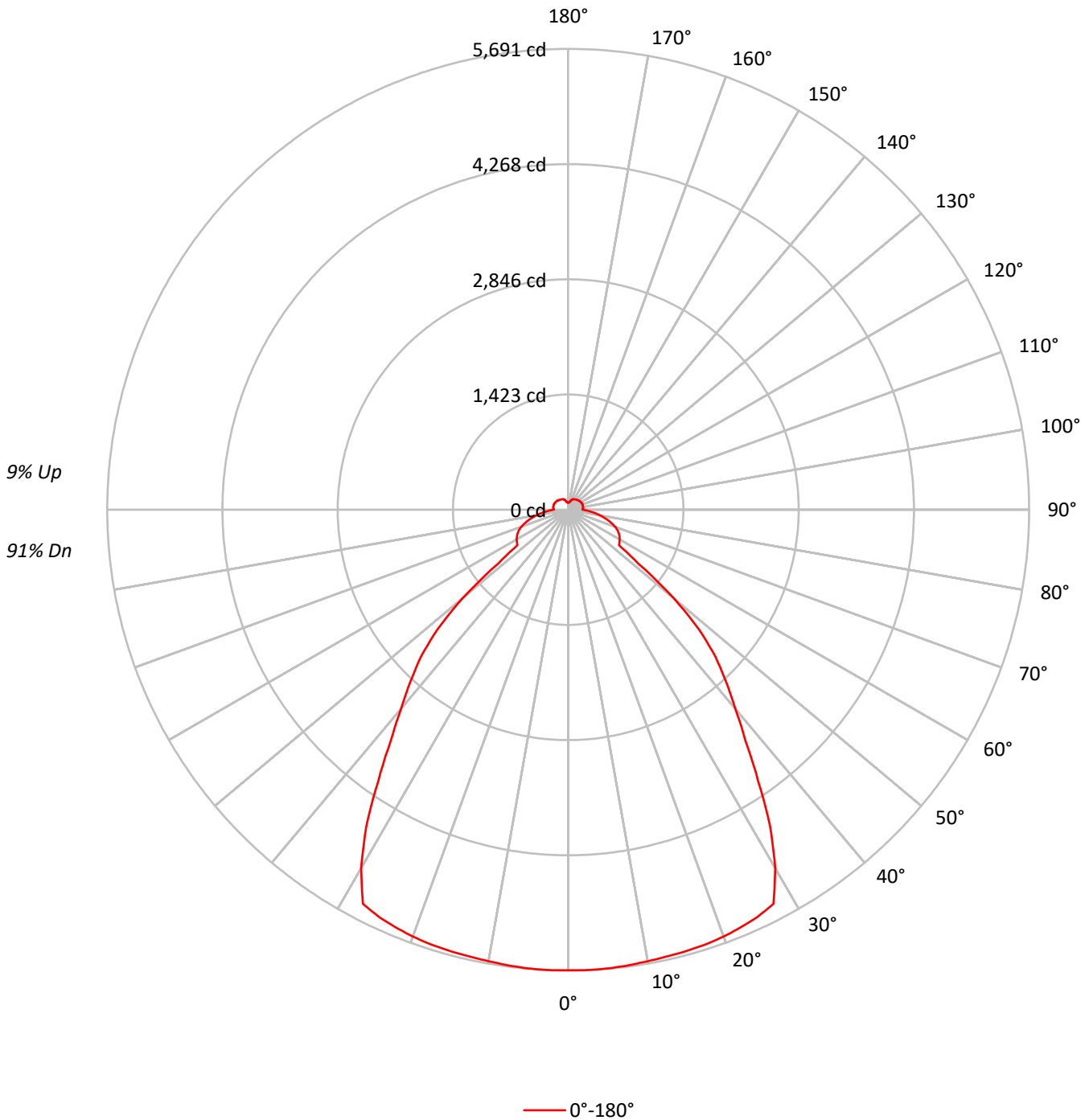
Lumens per Lamp: N/A
Luminaire Lumens: 12633.6 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 80
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°	42508
5°	39297
10°	36635
15°	34581
20°	32890
25°	31382
30°	28181
35°	22124
40°	17186
45°	13728
50°	9108
55°	4157
60°	4071
65°	3929
70°	3652
75°	3172
80°	2602
85°	1997

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13728 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.0	4.3
10°-20°	1598.0	12.6
20°-30°	2537.5	20.1
30°-40°	2564.4	20.3
40°-50°	1940.5	15.4
50°-60°	849.3	6.7
60°-70°	678.3	5.4
70°-80°	537.9	4.3
80°-90°	310.2	2.5
90°-100°	199.8	1.6
100°-110°	198.9	1.6
110°-120°	184.4	1.5
120°-130°	159.6	1.3
130°-140°	129.2	1.0
140°-150°	97.1	0.8
150°-160°	65.7	0.5
160°-170°	32.1	0.3
170°-180°	8.8	0.1
0°-30°	4677.5	37.0
0°-40°	7241.8	57.3
0°-60°	10031.6	79.4
0°-90°	11558.0	91.5
90°-120°	583.1	4.6
90°-150°	969.0	7.7
90°-180°	1076.0	8.5
0°-180°	12633.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5688	
5°	5687	542
15°	5642	1598
25°	5544	2537
35°	4088	2564
45°	2571	1940
55°	765	849
65°	689	678
75°	511	538
85°	284	255
90°	175	104
95°	184	151
105°	189	199
115°	186	184
125°	178	160
135°	166	129
145°	154	97
155°	142	66
165°	109	32
175°	89	9
180°	86	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5687.7
2.5°	5691.1
5°	5686.8
7.5°	5675.7
10°	5661.1
12.5°	5651.7
15°	5642.2
17.5°	5630.2
20°	5609.6
22.5°	5579.6
25°	5543.6
27.5°	5487.8
30°	5112.1
32.5°	4637.7
35°	4087.8
37.5°	3596.2
40°	3209.3
42.5°	2885.0
45°	2571.0
47.5°	2192.7
50°	1697.7
52.5°	1088.6
55°	765.2
57.5°	749.8
60°	734.3
62.5°	713.8
65°	688.9
67.5°	658.0
70°	616.8
72.5°	565.3
75°	511.3
77.5°	453.8
80°	396.3
82.5°	340.6
85°	284.0
87.5°	228.2
90°	175.0
92.5°	181.0
95°	184.4
97.5°	186.2
100°	187.0
102.5°	187.9
105°	188.7
107.5°	187.9
110°	187.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	187.0
115°	186.2
117.5°	184.4
120°	182.7
122.5°	180.2
125°	178.4
127.5°	175.0
130°	172.4
132.5°	169.9
135°	166.4
137.5°	163.9
140°	160.4
142.5°	157.8
145°	154.4
147.5°	151.0
150°	148.4
152.5°	145.8
155°	142.4
157.5°	137.3
160°	131.3
162.5°	122.7
165°	108.9
167.5°	100.4
170°	96.1
172.5°	92.7
175°	89.2
177.5°	87.5
180°	85.8

(END OF REPORT)