

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: P701305

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(5000K_L15_120V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P701305
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: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-TRWH(5000K_L15_120V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

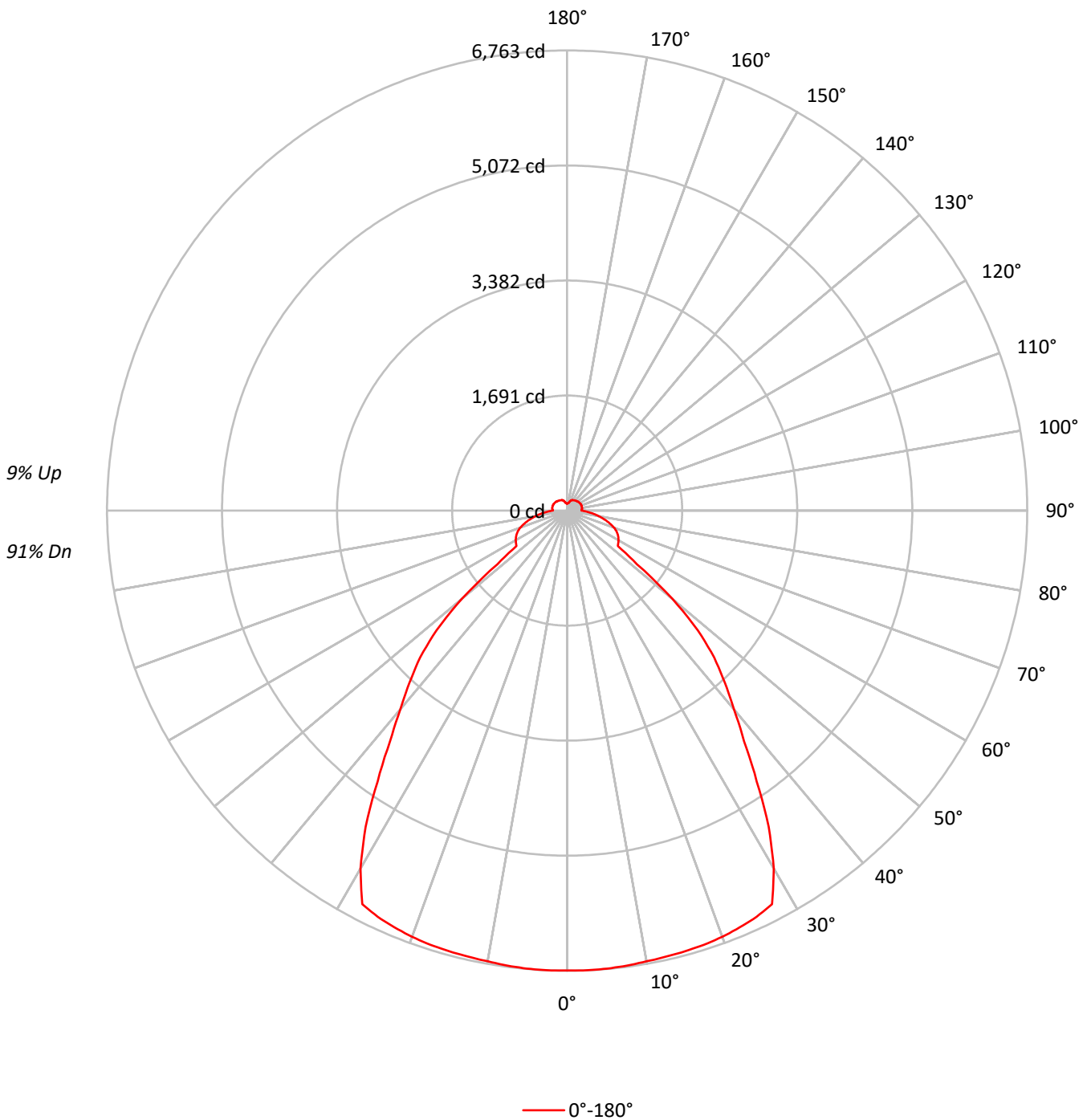
Lumens per Lamp: N/A
Luminaire Lumens: 15013.1 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 98.7
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°	50514
5°	46698
10°	43535
15°	41094
20°	39086
25°	37292
30°	33489
35°	26290
40°	20423
45°	16314
50°	10824
55°	4939
60°	4837
65°	4669
70°	4340
75°	3769
80°	3093
85°	2373

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16314 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.0	4.3
10°-20°	1899.0	12.6
20°-30°	3015.4	20.1
30°-40°	3047.3	20.3
40°-50°	2306.0	15.4
50°-60°	1009.3	6.7
60°-70°	806.0	5.4
70°-80°	639.2	4.3
80°-90°	368.7	2.5
90°-100°	237.5	1.6
100°-110°	236.3	1.6
110°-120°	219.1	1.5
120°-130°	189.7	1.3
130°-140°	153.5	1.0
140°-150°	115.5	0.8
150°-160°	78.0	0.5
160°-170°	38.2	0.3
170°-180°	10.4	0.1
0°-30°	5558.4	37.0
0°-40°	8605.8	57.3
0°-60°	11921.1	79.4
0°-90°	13734.9	91.5
90°-120°	692.9	4.6
90°-150°	1151.5	7.7
90°-180°	1278.0	8.5
0°-180°	15013.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6759	
5°	6758	644
15°	6705	1899
25°	6588	3015
35°	4858	3047
45°	3055	2306
55°	909	1009
65°	819	806
75°	608	639
85°	337	303
90°	208	124
95°	219	179
105°	224	236
115°	221	219
125°	212	190
135°	198	154
145°	184	115
155°	169	78
165°	130	38
175°	106	10
180°	102	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6758.9
2.5°	6763.0
5°	6757.9
7.5°	6744.7
10°	6727.3
12.5°	6716.1
15°	6704.9
17.5°	6690.6
20°	6666.2
22.5°	6630.5
25°	6587.7
27.5°	6521.4
30°	6074.9
32.5°	5511.1
35°	4857.7
37.5°	4273.5
40°	3813.7
42.5°	3428.4
45°	3055.3
47.5°	2605.7
50°	2017.5
52.5°	1293.7
55°	909.3
57.5°	891.0
60°	872.6
62.5°	848.2
65°	818.6
67.5°	781.9
70°	733.0
72.5°	671.8
75°	607.6
77.5°	539.3
80°	471.0
82.5°	404.7
85°	337.4
87.5°	271.2
90°	208.0
92.5°	215.1
95°	219.2
97.5°	221.2
100°	222.2
102.5°	223.3
105°	224.3
107.5°	223.3
110°	223.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	222.2
115°	221.2
117.5°	219.2
120°	217.1
122.5°	214.1
125°	212.0
127.5°	208.0
130°	204.9
132.5°	201.9
135°	197.8
137.5°	194.7
140°	190.6
142.5°	187.6
145°	183.5
147.5°	179.4
150°	176.4
152.5°	173.3
155°	169.2
157.5°	163.1
160°	156.0
162.5°	145.8
165°	129.5
167.5°	119.3
170°	114.2
172.5°	110.1
175°	106.0
177.5°	104.0
180°	101.9

(END OF REPORT)