

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: P709473

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L18_347V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709473
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(4000K_L18_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 18,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

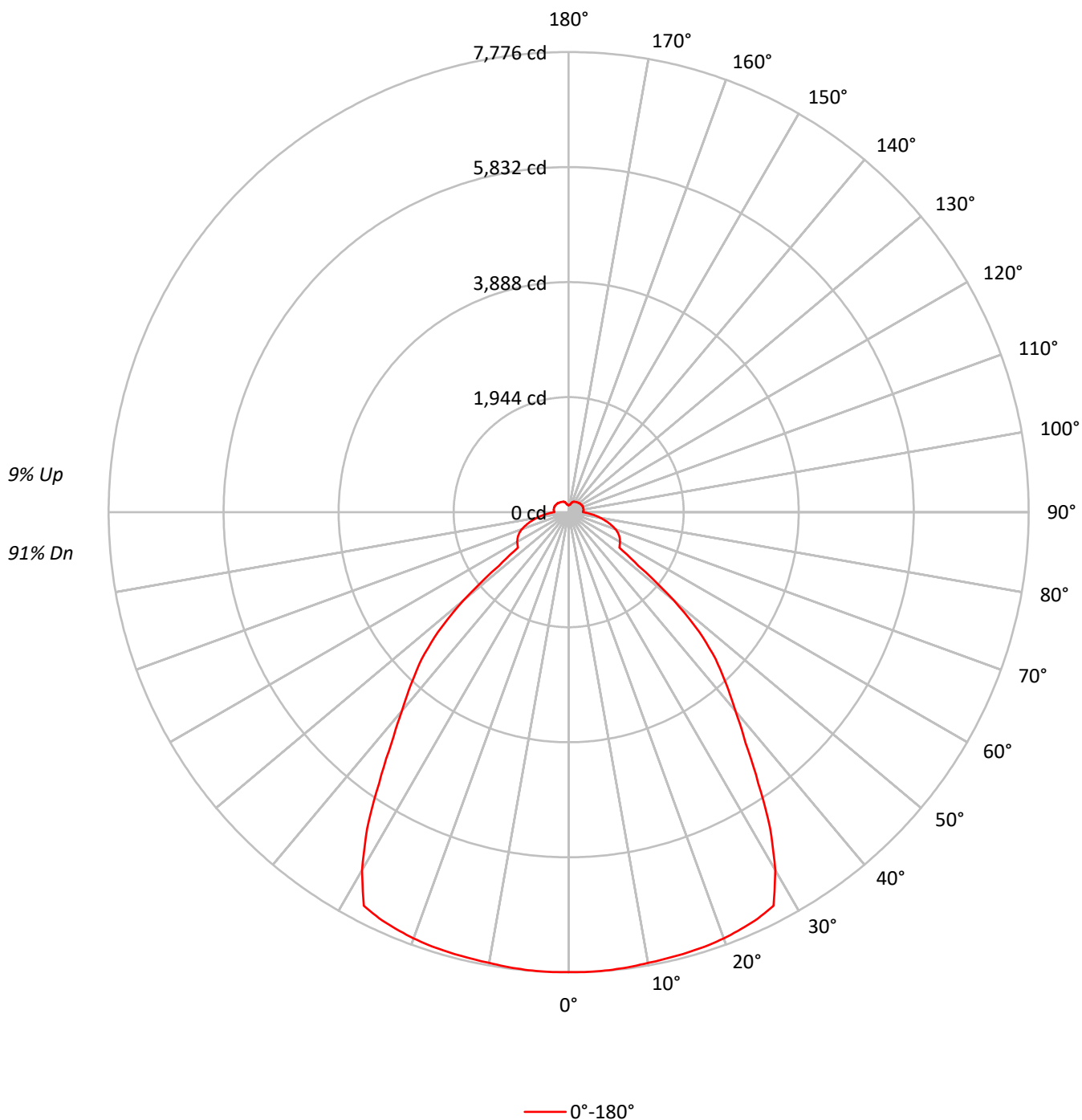
Lumens per Lamp: N/A
Luminaire Lumens: 17261.9 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 119.7
Input Voltage (V): 347
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
RCR																									
0	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	94	94	94	94	94			
1	108	104	100	97	104	101	97	94	95	92	90	90	88	85	85	83	82	82	82	82	82	79			
2	100	93	87	82	97	90	85	80	85	81	77	81	77	74	77	74	71	71	71	71	71	69			
3	92	83	76	71	89	81	75	69	77	72	67	73	69	65	70	66	63	63	63	63	63	61			
4	86	75	68	62	83	73	66	61	70	64	59	67	62	58	64	59	56	56	56	56	56	54			
5	80	68	60	55	77	67	59	54	64	58	53	61	56	51	58	54	50	50	50	50	50	48			
6	74	62	55	49	72	61	54	48	59	52	47	56	51	46	54	49	45	45	45	45	45	43			
7	69	57	49	44	67	56	49	44	54	47	43	52	46	42	50	45	41	41	41	41	41	39			
8	65	53	45	40	63	52	44	39	50	43	39	48	42	38	46	41	37	37	37	37	37	36			
9	61	49	41	36	59	48	41	36	46	40	35	45	39	35	43	38	34	34	34	34	34	32			
10	57	45	38	33	56	44	38	33	43	37	32	42	36	32	40	35	31	31	31	31	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58080
5°	53693
10°	50056
15°	47250
20°	44940
25°	42878
30°	38505
35°	30228
40°	23483
45°	18758
50°	12445
55°	5680
60°	5562
65°	5369
70°	4990
75°	4333
80°	3556
85°	2728

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18758 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.5	4.3
10°-20°	2183.5	12.6
20°-30°	3467.1	20.1
30°-40°	3503.8	20.3
40°-50°	2651.4	15.4
50°-60°	1160.5	6.7
60°-70°	926.8	5.4
70°-80°	735.0	4.3
80°-90°	423.9	2.5
90°-100°	273.0	1.6
100°-110°	271.7	1.6
110°-120°	251.9	1.5
120°-130°	218.1	1.3
130°-140°	176.5	1.0
140°-150°	132.7	0.8
150°-160°	89.7	0.5
160°-170°	43.9	0.3
170°-180°	12.0	0.1
0°-30°	6391.0	37.0
0°-40°	9894.8	57.3
0°-60°	13706.8	79.4
0°-90°	15792.4	91.5
90°-120°	796.7	4.6
90°-150°	1324.0	7.7
90°-180°	1470.0	8.5
0°-180°	17261.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7771	
5°	7770	741
15°	7709	2183
25°	7574	3467
35°	5585	3504
45°	3513	2651
55°	1046	1161
65°	941	927
75°	699	735
85°	388	348
90°	239	142
95°	252	206
105°	258	272
115°	254	252
125°	244	218
135°	227	177
145°	211	133
155°	195	90
165°	149	44
175°	122	12
180°	117	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7771.3
2.5°	7776.1
5°	7770.2
7.5°	7755.0
10°	7735.0
12.5°	7722.1
15°	7709.3
17.5°	7692.8
20°	7664.7
22.5°	7623.7
25°	7574.4
27.5°	7498.2
30°	6984.9
32.5°	6336.7
35°	5585.3
37.5°	4913.7
40°	4385.0
42.5°	3942.0
45°	3512.9
47.5°	2996.0
50°	2319.7
52.5°	1487.5
55°	1045.6
57.5°	1024.5
60°	1003.4
62.5°	975.3
65°	941.2
67.5°	899.0
70°	842.8
72.5°	772.4
75°	698.6
77.5°	620.1
80°	541.6
82.5°	465.3
85°	388.0
87.5°	311.8
90°	239.1
92.5°	247.3
95°	252.0
97.5°	254.4
100°	255.5
102.5°	256.7
105°	257.8
107.5°	256.7
110°	256.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	255.5
115°	254.4
117.5°	252.0
120°	249.7
122.5°	246.1
125°	243.8
127.5°	239.1
130°	235.6
132.5°	232.1
135°	227.4
137.5°	223.9
140°	219.2
142.5°	215.7
145°	210.9
147.5°	206.3
150°	202.8
152.5°	199.2
155°	194.6
157.5°	187.6
160°	179.3
162.5°	167.6
165°	148.9
167.5°	137.2
170°	131.3
172.5°	126.5
175°	121.9
177.5°	119.6
180°	117.2

(END OF REPORT)