

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: P709449

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-TRWH(4000K_L18_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709449
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_277V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH TRANSLUCENT WHITE SHADE
LIGHT LEVEL - 18,000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

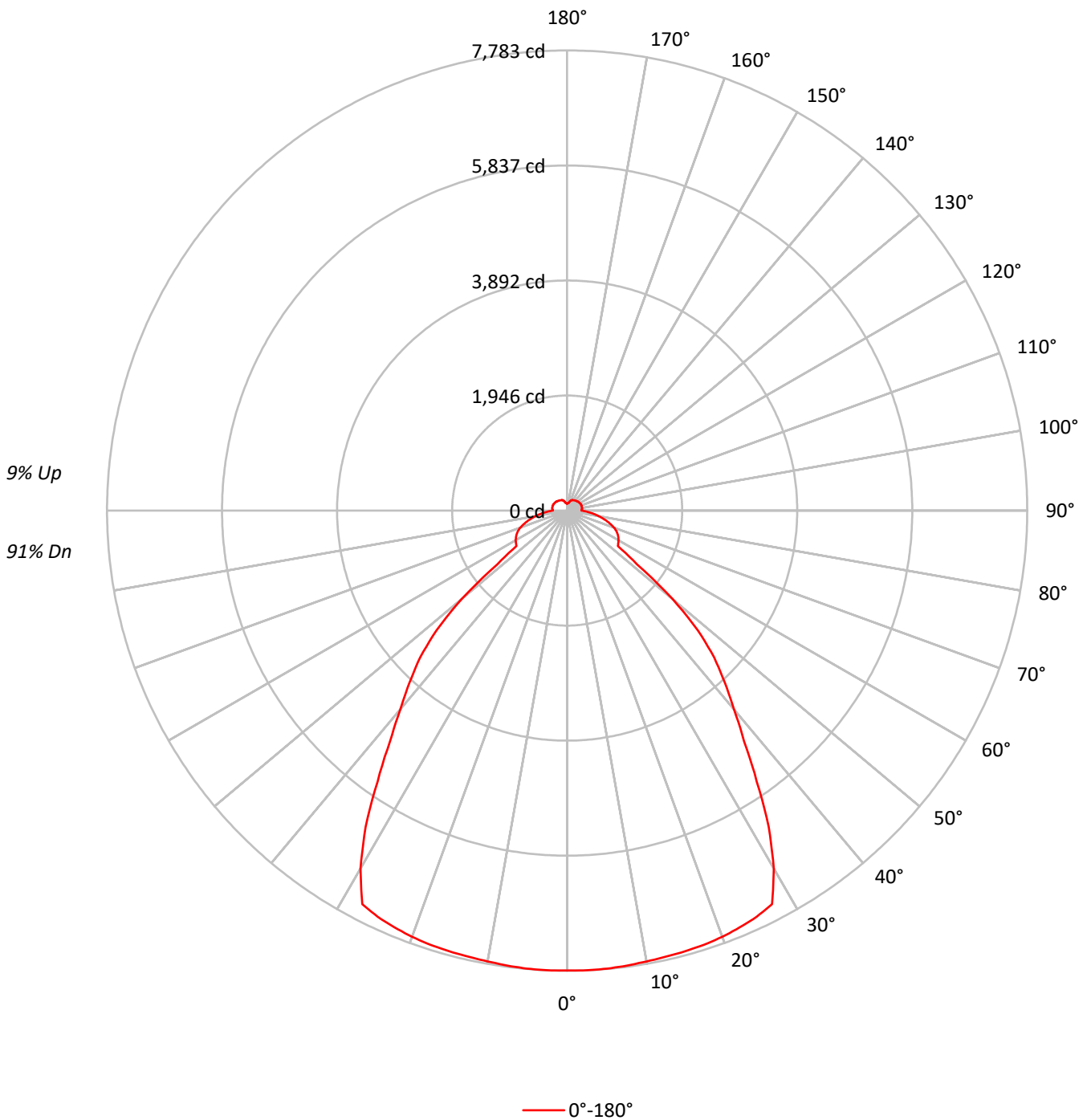
Lumens per Lamp: N/A
Luminaire Lumens: 17277.8 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 119.7
Input Voltage (V): 277
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°	58133
5°	53742
10°	50102
15°	47293
20°	44981
25°	42918
30°	38541
35°	30256
40°	23504
45°	18775
50°	12457
55°	5685
60°	5567
65°	5374
70°	4994
75°	4338
80°	3559
85°	2731

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18775 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	741.2	4.3
10°-20°	2185.4	12.6
20°-30°	3470.2	20.1
30°-40°	3507.0	20.3
40°-50°	2653.8	15.4
50°-60°	1161.6	6.7
60°-70°	927.6	5.4
70°-80°	735.6	4.3
80°-90°	424.3	2.5
90°-100°	273.3	1.6
100°-110°	272.0	1.6
110°-120°	252.2	1.5
120°-130°	218.3	1.3
130°-140°	176.7	1.0
140°-150°	132.9	0.8
150°-160°	89.8	0.5
160°-170°	44.0	0.3
170°-180°	12.0	0.1
0°-30°	6396.9	37.0
0°-40°	9903.9	57.3
0°-60°	13719.4	79.4
0°-90°	15806.9	91.5
90°-120°	797.4	4.6
90°-150°	1325.2	7.7
90°-180°	1471.0	8.5
0°-180°	17277.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7778	
5°	7777	741
15°	7716	2185
25°	7581	3470
35°	5590	3507
45°	3516	2654
55°	1047	1162
65°	942	928
75°	699	736
85°	388	349
90°	239	142
95°	252	207
105°	258	272
115°	255	252
125°	244	218
135°	228	177
145°	211	133
155°	195	90
165°	149	44
175°	122	12
180°	117	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7778.4
2.5°	7783.2
5°	7777.3
7.5°	7762.1
10°	7742.1
12.5°	7729.2
15°	7716.3
17.5°	7699.8
20°	7671.7
22.5°	7630.6
25°	7581.4
27.5°	7505.1
30°	6991.3
32.5°	6342.5
35°	5590.4
37.5°	4918.2
40°	4389.0
42.5°	3945.6
45°	3516.1
47.5°	2998.8
50°	2321.9
52.5°	1488.9
55°	1046.6
57.5°	1025.4
60°	1004.3
62.5°	976.2
65°	942.1
67.5°	899.9
70°	843.5
72.5°	773.1
75°	699.3
77.5°	620.7
80°	542.0
82.5°	465.8
85°	388.4
87.5°	312.1
90°	239.4
92.5°	247.6
95°	252.2
97.5°	254.6
100°	255.7
102.5°	257.0
105°	258.1
107.5°	257.0
110°	257.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	255.7
115°	254.6
117.5°	252.2
120°	249.9
122.5°	246.3
125°	244.0
127.5°	239.4
130°	235.8
132.5°	232.3
135°	227.6
137.5°	224.1
140°	219.4
142.5°	215.9
145°	211.1
147.5°	206.5
150°	202.9
152.5°	199.4
155°	194.7
157.5°	187.8
160°	179.5
162.5°	167.7
165°	149.0
167.5°	137.3
170°	131.4
172.5°	126.7
175°	122.0
177.5°	119.7
180°	117.4

(END OF REPORT)