

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: P709464

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-WHTE(5000K_L18_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-WHTE(5000K_L18_277V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL - 18,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

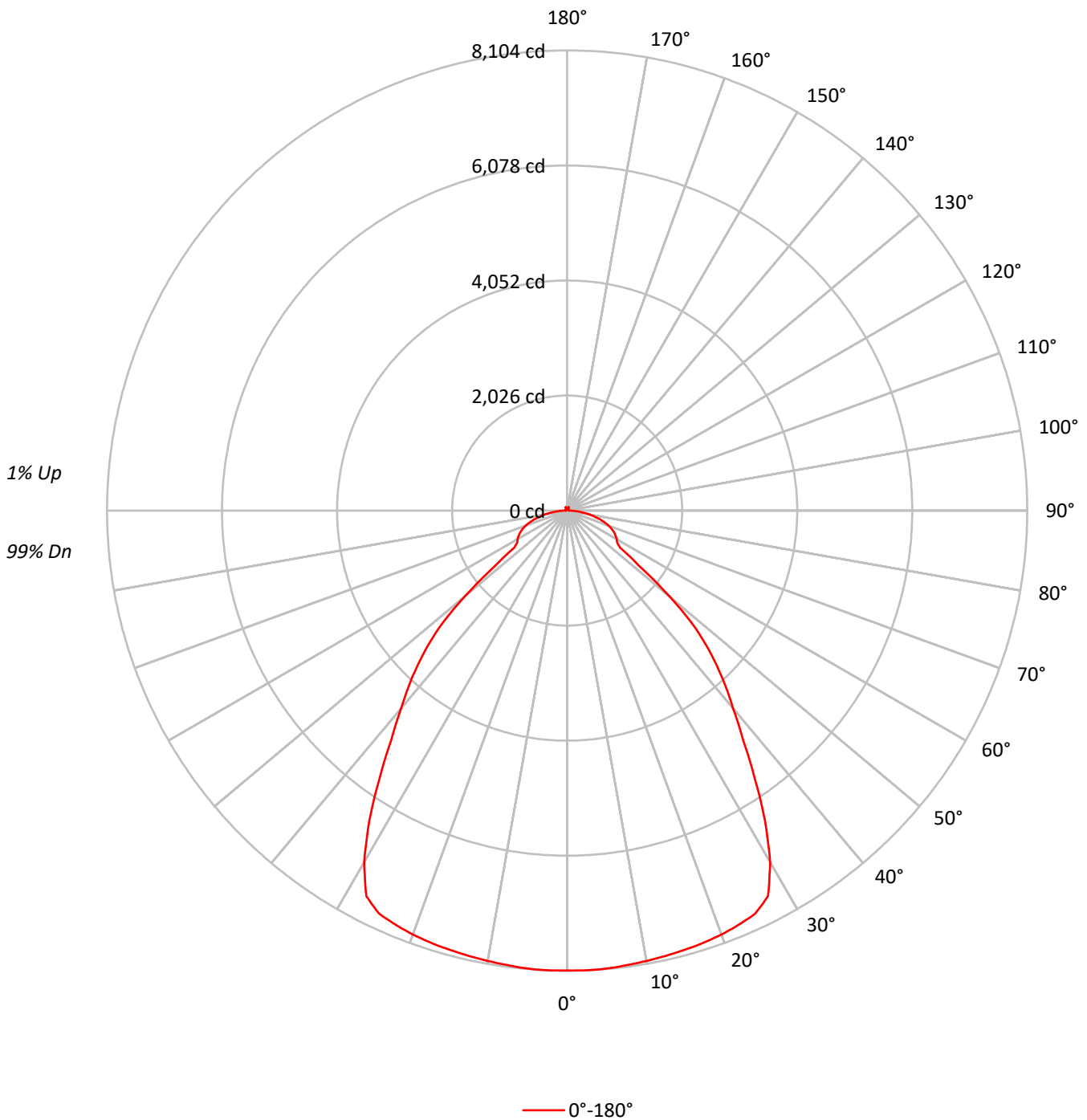
Lumens per Lamp: N/A
Luminaire Lumens: 16105.2 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.19
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 120.3
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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		101	101	101	99
1	110	106	103	100	108	104	101	98	100	97	95		96	93	92		92	90	89	87
2	102	95	90	85	100	93	88	84	90	85	82		86	83	80		83	80	78	76
3	95	86	79	74	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	78	70	65	86	77	70	64	74	68	63		72	66	62		69	65	61	59
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	77	65	57	51	75	64	57	51	62	56	51		60	55	50		59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	45		54	49	45	43
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		50	45	41	39
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60542
5°	55944
10°	52114
15°	49079
20°	46588
25°	44346
30°	39419
35°	31204
40°	24352
45°	19234
50°	12649
55°	6164
60°	5583
65°	5208
70°	4601
75°	3704
80°	2630
85°	1450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19234 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.3	4.8
10°-20°	2267.7	14.1
20°-30°	3570.8	22.2
30°-40°	3609.7	22.4
40°-50°	2729.3	16.9
50°-60°	1211.6	7.5
60°-70°	897.3	5.6
70°-80°	627.2	3.9
80°-90°	226.5	1.4
90°-100°	25.1	0.2
100°-110°	25.3	0.2
110°-120°	24.4	0.2
120°-130°	24.3	0.2
130°-140°	26.7	0.2
140°-150°	28.0	0.2
150°-160°	27.2	0.2
160°-170°	11.0	0.1
170°-180°	2.1	0.0
0°-30°	6609.7	41.0
0°-40°	10219.4	63.5
0°-60°	14160.4	87.9
0°-90°	15911.3	98.8
90°-120°	74.7	0.5
90°-150°	153.7	1.0
90°-180°	194.0	1.2
0°-180°	16105.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8101	
5°	8096	771
15°	8008	2268
25°	7834	3571
35°	5766	3610
45°	3602	2729
55°	1135	1212
65°	913	897
75°	597	627
85°	206	208
90°	24	25
95°	23	19
105°	24	25
115°	25	24
125°	26	24
135°	35	27
145°	44	28
155°	61	27
165°	31	11
175°	21	2
180°	21	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	8100.7
2.5°	8104.2
5°	8095.9
7.5°	8075.7
10°	8053.0
12.5°	8031.6
15°	8007.7
17.5°	7981.5
20°	7945.7
22.5°	7895.6
25°	7833.7
27.5°	7658.5
30°	7150.6
32.5°	6489.1
35°	5765.5
37.5°	5089.8
40°	4547.4
42.5°	4083.7
45°	3602.1
47.5°	3074.1
50°	2357.8
52.5°	1591.2
55°	1134.8
57.5°	1041.8
60°	1007.2
62.5°	964.3
65°	913.0
67.5°	852.2
70°	777.2
72.5°	691.4
75°	597.2
77.5°	499.5
80°	400.5
82.5°	302.8
85°	206.2
87.5°	110.9
90°	23.9
92.5°	21.4
95°	22.7
97.5°	23.9
100°	23.9
102.5°	23.9
105°	23.9
107.5°	23.9
110°	23.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	23.9
115°	25.0
117.5°	25.0
120°	25.0
122.5°	26.2
125°	26.2
127.5°	28.6
130°	29.8
132.5°	32.2
135°	34.6
137.5°	36.9
140°	39.4
142.5°	41.7
145°	44.1
147.5°	47.6
150°	52.4
152.5°	57.3
155°	60.8
157.5°	62.0
160°	58.4
162.5°	51.3
165°	31.0
167.5°	22.7
170°	22.7
172.5°	21.4
175°	21.4
177.5°	21.4
180°	21.4

(END OF REPORT)