

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: P709470

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

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-1218-MV-L84050-CLER(4000K_L18_347V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL - 18,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

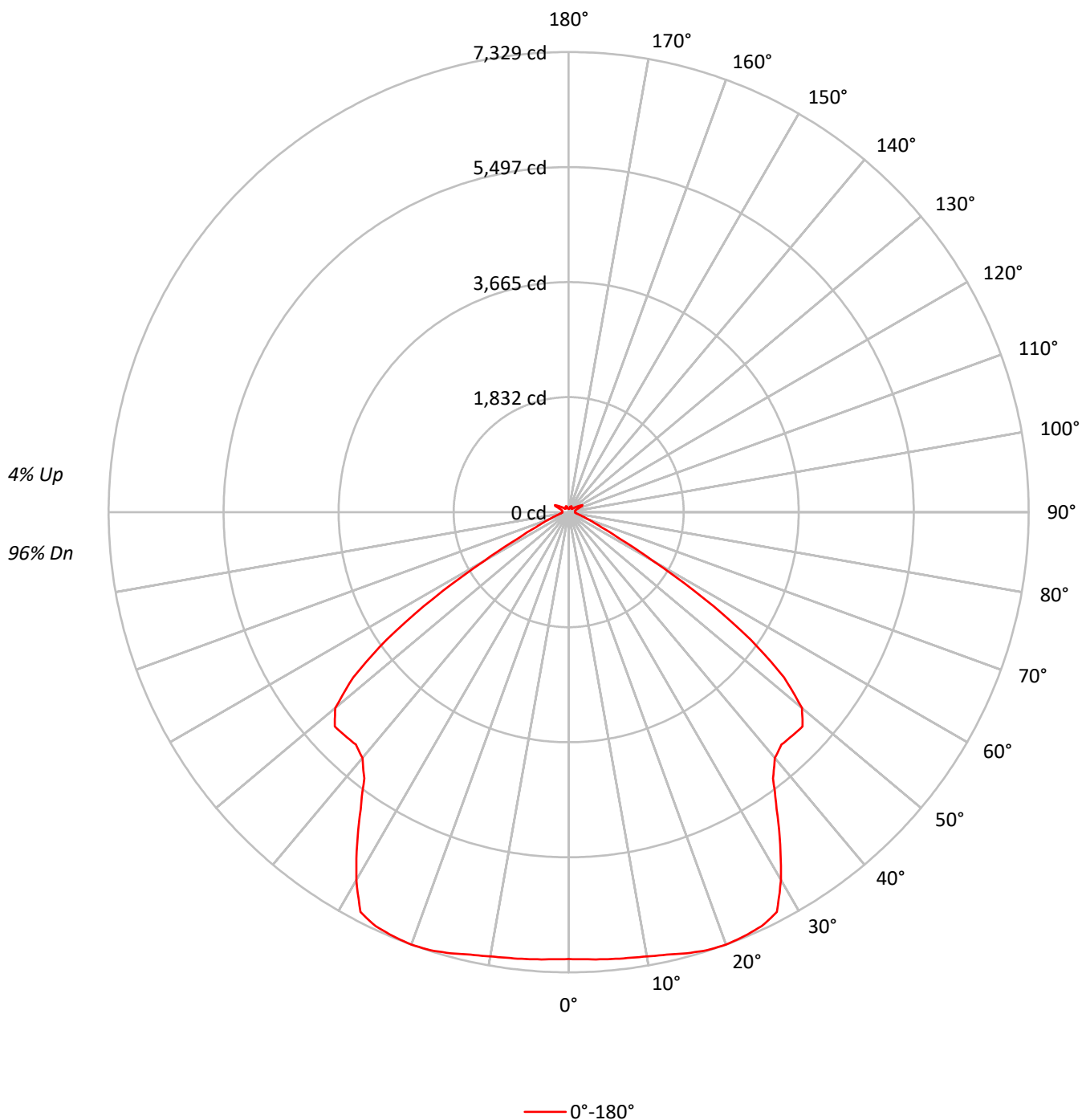
Lumens per Lamp: N/A
Luminaire Lumens: 18450.7 lumens
Efficiency: N/A
Efficacy: 154.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

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	0		
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96		
1	110	106	103	100	107	103	100	98	99	96	94	94	92	90	90	88	87	85		
2	102	95	89	84	99	93	87	83	88	84	80	85	81	78	81	78	76	74		
3	94	85	78	72	91	83	76	71	79	74	69	76	72	68	73	69	66	64		
4	86	76	68	62	84	74	67	62	71	65	60	69	63	59	66	62	58	56		
5	80	68	60	54	78	67	59	54	64	58	53	62	56	52	60	55	51	49		
6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	55	49	45	43		
7	69	56	48	42	67	55	48	42	53	47	42	52	46	41	50	45	40	39		
8	64	51	43	38	62	50	43	38	49	42	37	47	41	37	46	40	36	35		
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	42	37	33	31		
10	56	44	36	31	55	43	36	31	42	35	31	40	34	30	39	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53184
5°	49384
10°	46491
15°	44569
20°	42974
25°	41187
30°	37290
35°	31262
40°	27368
45°	26888
50°	26028
55°	19248
60°	8584
65°	3437
70°	1964
75°	1215
80°	892
85°	767

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 27020 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.3	3.7
10°-20°	2062.1	11.2
20°-30°	3328.1	18.0
30°-40°	3643.1	19.7
40°-50°	3888.3	21.1
50°-60°	3026.7	16.4
60°-70°	714.8	3.9
70°-80°	221.7	1.2
80°-90°	122.4	0.7
90°-100°	111.3	0.6
100°-110°	122.7	0.7
110°-120°	203.8	1.1
120°-130°	134.7	0.7
130°-140°	64.2	0.3
140°-150°	50.4	0.3
150°-160°	45.7	0.2
160°-170°	22.1	0.1
170°-180°	5.5	0.0
0°-30°	6073.5	32.9
0°-40°	9716.6	52.7
0°-60°	16631.5	90.1
0°-90°	17690.5	95.9
90°-120°	437.7	2.4
90°-150°	687.0	3.7
90°-180°	760.0	4.1
0°-180°	18450.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7116	
5°	7147	683
15°	7272	2062
25°	7276	3328
35°	5776	3643
45°	5036	3888
55°	3543	3027
65°	602	715
75°	196	222
85°	109	95
90°	98	55
95°	102	84
105°	114	123
115°	232	204
125°	147	135
135°	78	64
145°	78	50
155°	102	46
165°	75	22
175°	55	5
180°	55	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	7116.2
2.5°	7129.0
5°	7146.6
7.5°	7163.0
10°	7184.1
12.5°	7219.3
15°	7272.0
17.5°	7316.6
20°	7329.4
22.5°	7309.5
25°	7275.6
27.5°	7180.6
30°	6764.4
32.5°	6272.2
35°	5776.3
37.5°	5346.2
40°	5110.6
42.5°	5020.3
45°	5035.6
47.5°	5053.2
50°	4851.5
52.5°	4324.0
55°	3543.4
57.5°	2556.5
60°	1548.4
62.5°	928.4
65°	602.5
67.5°	438.4
70°	331.7
72.5°	250.9
75°	195.8
77.5°	160.6
80°	135.9
82.5°	119.6
85°	109.1
87.5°	103.2
90°	98.4
92.5°	100.8
95°	102.0
97.5°	103.2
100°	105.5
102.5°	111.4
105°	113.7
107.5°	118.4
110°	135.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	175.9
115°	232.1
117.5°	245.0
120°	205.1
122.5°	172.3
125°	146.6
127.5°	123.1
130°	104.3
132.5°	89.0
135°	78.5
137.5°	73.9
140°	72.7
142.5°	75.0
145°	78.5
147.5°	85.6
150°	93.8
152.5°	99.7
155°	102.0
157.5°	99.7
160°	93.8
162.5°	85.6
165°	75.0
167.5°	66.8
170°	60.9
172.5°	57.4
175°	55.1
177.5°	55.1
180°	55.1

(END OF REPORT)