

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: P709457

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-CLER(5000K_L15_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709457
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(5000K_L15_277V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

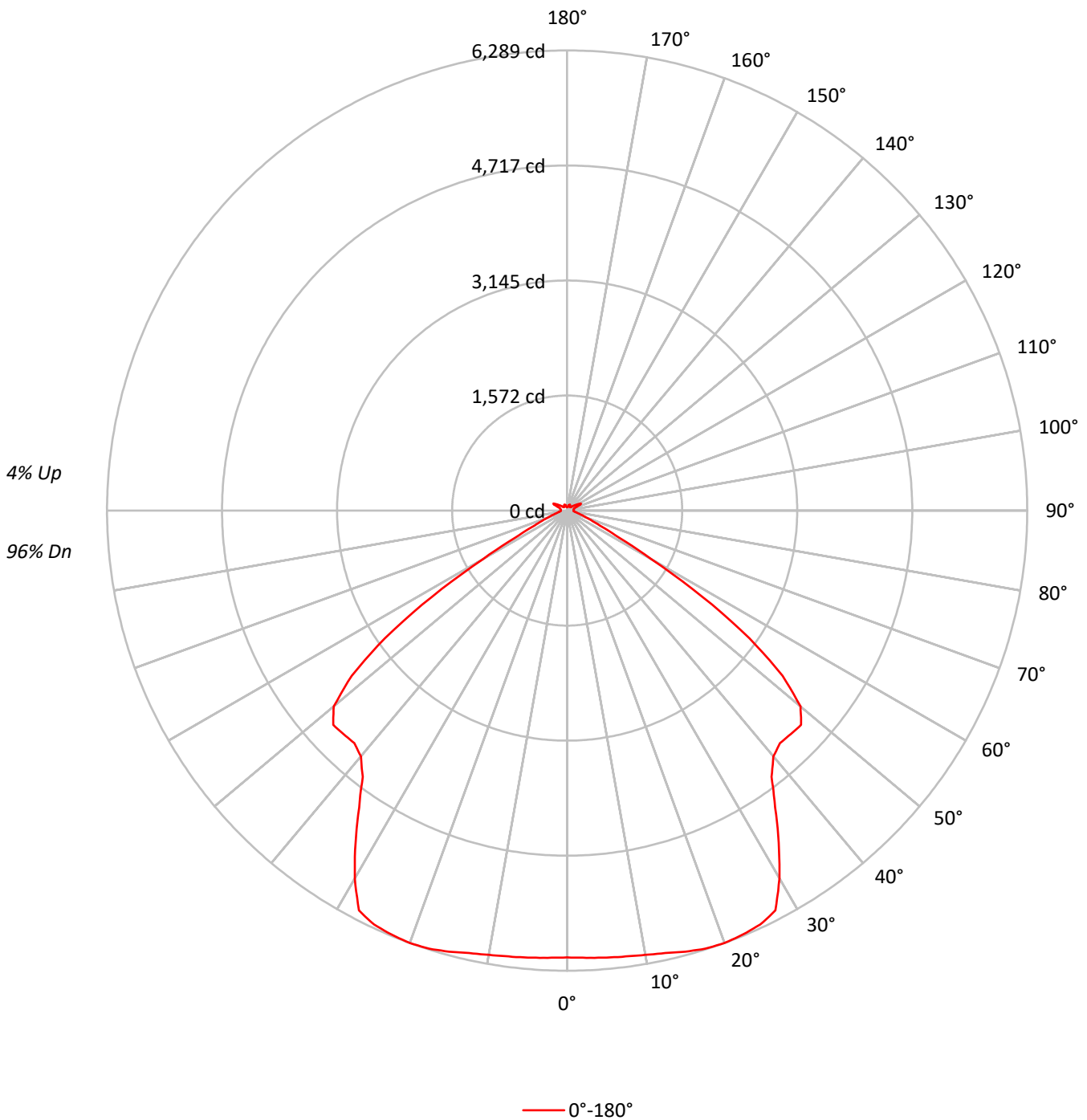
Lumens per Lamp: N/A
Luminaire Lumens: 15832.6 lumens
Efficiency: N/A
Efficacy: 165.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.41
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 95.9
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	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°	45637
5°	42377
10°	39894
15°	38245
20°	36876
25°	35342
30°	31999
35°	26826
40°	23485
45°	23073
50°	22335
55°	16517
60°	7366
65°	2949
70°	1685
75°	1041
80°	766
85°	657

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 23186 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.3	3.7
10°-20°	1769.5	11.2
20°-30°	2855.9	18.0
30°-40°	3126.1	19.7
40°-50°	3336.6	21.1
50°-60°	2597.2	16.4
60°-70°	613.4	3.9
70°-80°	190.2	1.2
80°-90°	105.0	0.7
90°-100°	95.5	0.6
100°-110°	105.3	0.7
110°-120°	174.9	1.1
120°-130°	115.6	0.7
130°-140°	55.1	0.3
140°-150°	43.2	0.3
150°-160°	39.2	0.2
160°-170°	19.0	0.1
170°-180°	4.7	0.0
0°-30°	5211.7	32.9
0°-40°	8337.8	52.7
0°-60°	14271.6	90.1
0°-90°	15180.2	95.9
90°-120°	375.6	2.4
90°-150°	589.5	3.7
90°-180°	652.0	4.1
0°-180°	15832.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6106	
5°	6133	586
15°	6240	1769
25°	6243	2856
35°	4957	3126
45°	4321	3337
55°	3041	2597
65°	517	613
75°	168	190
85°	94	81
90°	84	47
95°	88	72
105°	98	105
115°	199	175
125°	126	116
135°	67	55
145°	67	43
155°	88	39
165°	64	19
175°	47	5
180°	47	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	6106.4
2.5°	6117.5
5°	6132.6
7.5°	6146.6
10°	6164.7
12.5°	6194.9
15°	6240.1
17.5°	6278.4
20°	6289.4
22.5°	6272.4
25°	6243.2
27.5°	6161.7
30°	5804.6
32.5°	5382.2
35°	4956.7
37.5°	4587.6
40°	4385.4
42.5°	4308.0
45°	4321.0
47.5°	4336.1
50°	4163.1
52.5°	3710.5
55°	3040.6
57.5°	2193.7
60°	1328.7
62.5°	796.6
65°	517.0
67.5°	376.2
70°	284.6
72.5°	215.3
75°	167.9
77.5°	137.8
80°	116.7
82.5°	102.6
85°	93.5
87.5°	88.5
90°	84.5
92.5°	86.5
95°	87.5
97.5°	88.5
100°	90.6
102.5°	95.5
105°	97.6
107.5°	101.6
110°	116.7

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	150.9
115°	199.2
117.5°	210.3
120°	176.0
122.5°	147.9
125°	125.7
127.5°	105.6
130°	89.5
132.5°	76.5
135°	67.4
137.5°	63.3
140°	62.4
142.5°	64.3
145°	67.4
147.5°	73.4
150°	80.5
152.5°	85.5
155°	87.5
157.5°	85.5
160°	80.5
162.5°	73.4
165°	64.3
167.5°	57.3
170°	52.3
172.5°	49.3
175°	47.3
177.5°	47.3
180°	47.3

(END OF REPORT)