

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: P709442

Luminaire Tested: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L15_277V)

Issue Date: 8/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P709442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2305-038-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L15_277V)
Description: PRENTALUX HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL - 15,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

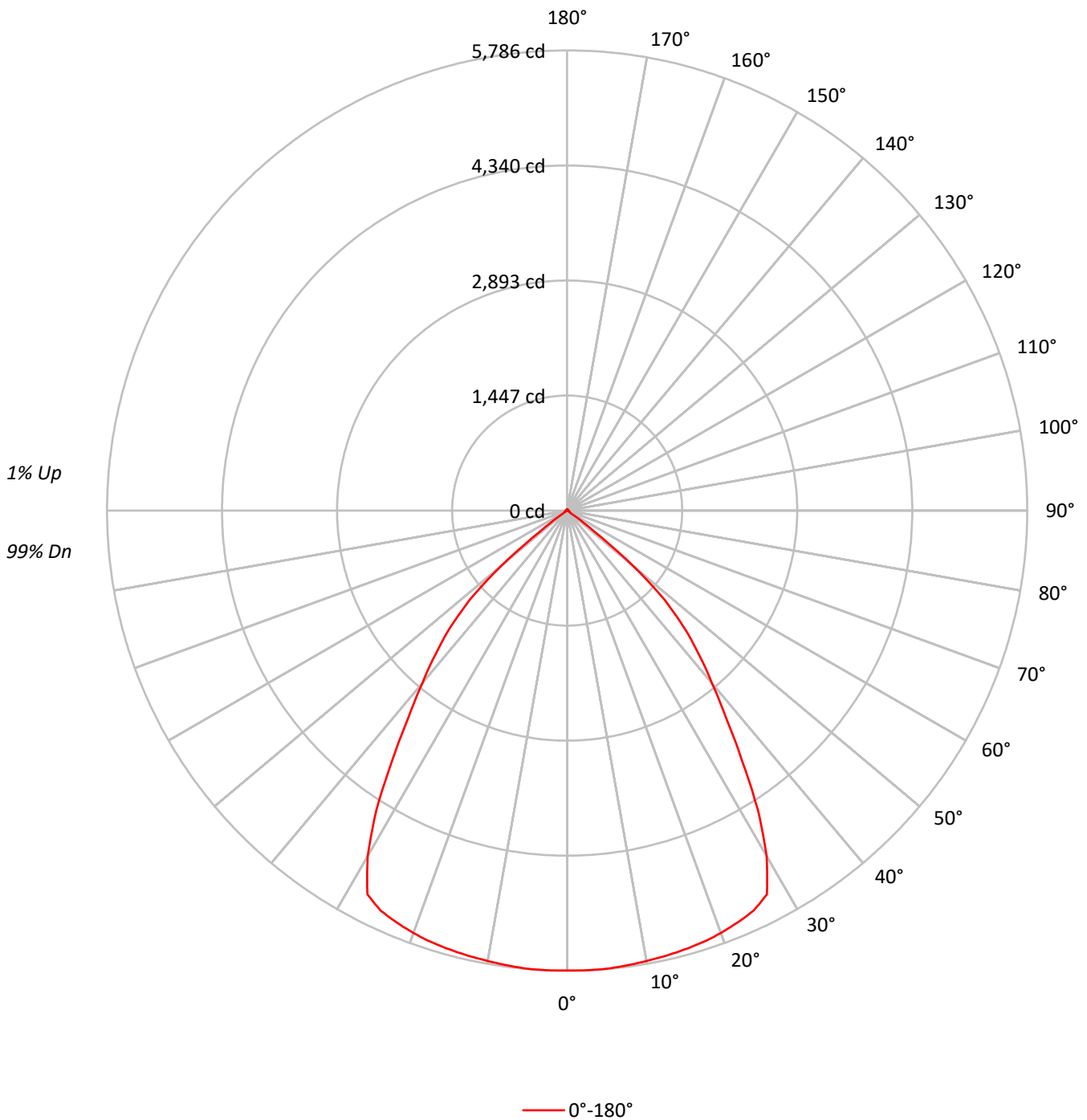
Lumens per Lamp: N/A
Luminaire Lumens: 9016.3 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.14
Luminous Opening: Vertical Cylinder (Dia: 1.35' x H: 1.04')
CIE Type: Direct

Input Watts (W): 95.8
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

TEST NUMBER: P709442

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L15_277V)

Luminous Intensity Polar Plot





TEST NUMBER: P709442

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L15_277V)

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	111	111	111		106	106	106		101	101	101	99
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89		92	89	87		89	87	85	83
3	100	92	86	82	97	91	85	81	88	83	80		85	82	78		83	80	77	75
4	93	85	78	74	91	84	78	73	81	76	72		79	75	71		77	73	70	69
5	88	78	71	66	86	77	71	66	75	70	65		73	68	65		72	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	77	67	60	55	76	66	59	55	65	59	54		63	58	54		62	57	54	52
8	73	62	55	50	71	61	55	50	60	54	50		59	54	50		58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46		55	50	46		54	49	46	44
10	65	54	47	43	64	53	47	43	52	46	42		51	46	42		51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43218
5°	39959
10°	37218
15°	35018
20°	33142
25°	31417
30°	27647
35°	20729
40°	15169
45°	11100
50°	5881
55°	300
60°	191
65°	175
70°	157
75°	122
80°	77
85°	41

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11100 cd/sqm

TEST NUMBER: P709442

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L15_277V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.9	6.1
10°-20°	1617.1	17.9
20°-30°	2530.5	28.1
30°-40°	2405.2	26.7
40°-50°	1560.5	17.3
50°-60°	233.0	2.6
60°-70°	30.3	0.3
70°-80°	20.4	0.2
80°-90°	7.0	0.1
90°-100°	8.8	0.1
100°-110°	9.4	0.1
110°-120°	8.8	0.1
120°-130°	8.3	0.1
130°-140°	8.6	0.1
140°-150°	7.8	0.1
150°-160°	5.9	0.1
160°-170°	3.0	0.0
170°-180°	0.8	0.0
0°-30°	4698.5	52.1
0°-40°	7103.7	78.8
0°-60°	8897.3	98.7
0°-90°	8955.0	99.3
90°-120°	27.0	0.3
90°-150°	51.7	0.6
90°-180°	61.0	0.7
0°-180°	9016.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5783	
5°	5783	551
15°	5714	1617
25°	5550	2530
35°	3830	2405
45°	2079	1561
55°	55	233
65°	31	30
75°	20	20
85°	6	6
90°	4	3
95°	9	7
105°	9	9
115°	9	9
125°	9	8
135°	11	9
145°	13	8
155°	13	6
165°	10	3
175°	8	1
180°	8	

TEST NUMBER: P709442

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L15_277V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	5782.7
2.5°	5785.7
5°	5782.7
7.5°	5768.9
10°	5751.1
12.5°	5734.3
15°	5713.6
17.5°	5689.0
20°	5652.5
22.5°	5604.1
25°	5549.8
27.5°	5440.3
30°	5015.1
32.5°	4462.6
35°	3830.1
37.5°	3274.7
40°	2832.6
42.5°	2451.8
45°	2078.8
47.5°	1656.6
50°	1096.2
52.5°	417.3
55°	55.3
57.5°	37.5
60°	34.5
62.5°	32.6
65°	30.6
67.5°	28.6
70°	26.6
72.5°	22.7
75°	19.7
77.5°	15.8
80°	11.8
82.5°	8.9
85°	5.9
87.5°	3.0
90°	3.9
92.5°	7.9
95°	8.9
97.5°	8.9
100°	8.9
102.5°	8.9
105°	8.9
107.5°	8.9
110°	8.9

TEST NUMBER: P709442

CATALOG NUMBER: PRLX-UHBS-1218-MV-L84050-BLAK(4000K_L15_277V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	8.9
115°	8.9
117.5°	8.9
120°	8.9
122.5°	8.9
125°	8.9
127.5°	9.9
130°	9.9
132.5°	10.9
135°	10.9
137.5°	11.8
140°	11.8
142.5°	11.8
145°	12.8
147.5°	12.8
150°	12.8
152.5°	12.8
155°	12.8
157.5°	12.8
160°	11.8
162.5°	11.8
165°	9.9
167.5°	8.9
170°	8.9
172.5°	7.9
175°	7.9
177.5°	7.9
180°	7.9

(END OF REPORT)