

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: P735817

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(5000K_L24_120V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-CLER(5000K_L24_120V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

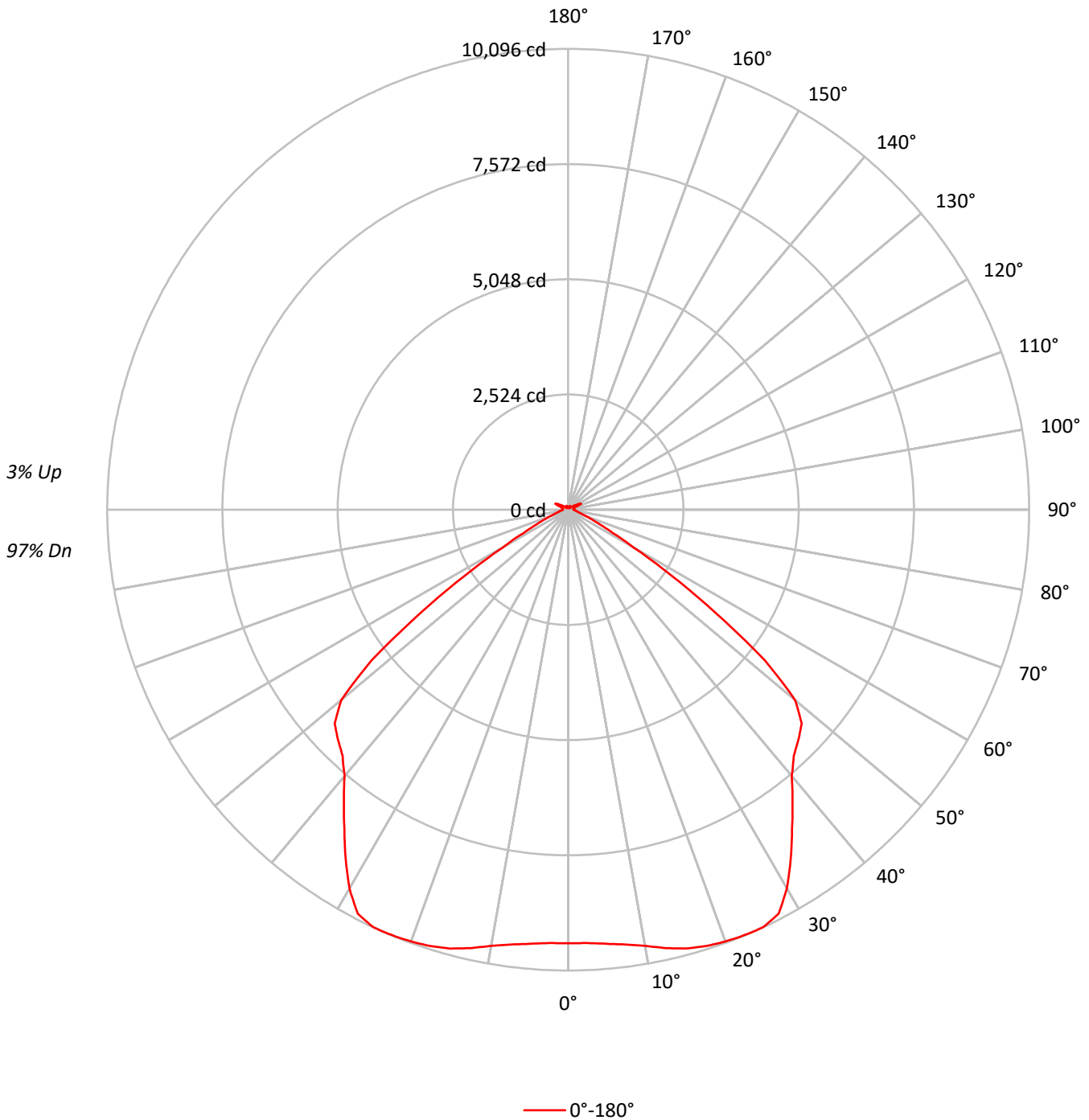
Lumens per Lamp: N/A
Luminaire Lumens: 24909.1 lumens
Efficiency: N/A
Efficacy: 170.8 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 145.8
Input Voltage (V): 120
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: P735817

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-CLER(5000K_L24_120V)

Luminous Intensity Polar Plot





TEST NUMBER: P735817

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-CLER(5000K_L24_120V)

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		104	104	104		99	99	99	97
1	110	106	103	100	107	104	101	98	99	97	94		95	93	91		91	89	88	86
2	102	95	90	85	99	93	88	84	89	85	81		86	82	79		82	79	77	75
3	94	85	78	73	92	84	77	72	80	75	70		77	73	69		74	71	67	65
4	87	77	69	63	85	75	68	63	72	66	61		70	65	60		67	63	59	57
5	81	69	61	55	78	68	60	55	65	59	54		63	58	53		61	56	52	50
6	75	63	55	49	73	62	54	48	59	53	48		58	52	47		56	51	47	45
7	69	57	49	43	68	56	48	43	54	48	43		53	47	42		51	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38		48	42	38		47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		43	38	34	32
10	57	44	37	32	55	44	36	32	42	36	31		41	35	31		40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44600
5°	42131
10°	40684
15°	40057
20°	39220
25°	38408
30°	35877
35°	31738
40°	28285
45°	26649
50°	24620
55°	15282
60°	6672
65°	3233
70°	1841
75°	1198
80°	941
85°	813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26649 cd/sqm



TEST NUMBER: P735817

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-CLER(5000K_L24_120V)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.9	3.7
10°-20°	2818.7	11.3
20°-30°	4622.3	18.6
30°-40°	5360.8	21.5
40°-50°	5494.2	22.1
50°-60°	3568.6	14.3
60°-70°	858.0	3.4
70°-80°	289.9	1.2
80°-90°	164.4	0.7
90°-100°	122.3	0.5
100°-110°	140.4	0.6
110°-120°	259.1	1.0
120°-130°	140.6	0.6
130°-140°	47.9	0.2
140°-150°	43.6	0.2
150°-160°	41.7	0.2
160°-170°	17.3	0.1
170°-180°	3.5	0.0
0°-30°	8356.8	33.5
0°-40°	13717.6	55.1
0°-60°	22780.4	91.5
0°-90°	24092.7	96.7
90°-120°	521.8	2.1
90°-150°	753.9	3.0
90°-180°	816.0	3.3
0°-180°	24909.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9497	
5°	9544	916
15°	9953	2819
25°	10096	4622
35°	8546	5361
45°	7128	5494
55°	3936	3569
65°	775	858
75°	257	290
85°	149	130
90°	117	66
95°	109	91
105°	124	140
115°	312	259
125°	154	141
135°	55	48
145°	70	44
155°	92	42
165°	59	17
175°	35	4
180°	35	

TEST NUMBER: P735817

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-CLER(5000K_L24_120V)

CANDELA DISTRIBUTION (FULL):

0°	
0°	9497.3
2.5°	9501.3
5°	9544.4
7.5°	9607.3
10°	9699.8
12.5°	9836.0
15°	9953.2
17.5°	10026.5
20°	10065.6
22.5°	10088.7
25°	10095.9
27.5°	9980.3
30°	9581.8
32.5°	9071.0
35°	8545.8
37.5°	8070.8
40°	7619.7
42.5°	7312.1
45°	7128.0
47.5°	6936.7
50°	6488.0
52.5°	5430.5
55°	3936.2
57.5°	2662.6
60°	1665.6
62.5°	1105.4
65°	775.4
67.5°	564.2
70°	420.0
72.5°	321.2
75°	257.4
77.5°	216.8
80°	188.1
82.5°	165.8
85°	149.0
87.5°	135.5
90°	117.2
92.5°	111.6
95°	109.2
97.5°	110.8
100°	116.4
102.5°	120.3
105°	124.3
107.5°	140.3
110°	176.9

TEST NUMBER: P735817

CATALOG NUMBER: PRLX-UHBS-2436-MV-L84050-CLER(5000K_L24_120V)

CANDELA DISTRIBUTION (continued):

	0°
112.5°	244.7
115°	312.4
117.5°	287.7
120°	224.7
122.5°	186.5
125°	153.8
127.5°	122.7
130°	93.2
132.5°	70.1
135°	55.0
137.5°	48.6
140°	49.4
142.5°	57.4
145°	70.1
147.5°	82.9
150°	92.4
152.5°	94.8
155°	92.4
157.5°	86.1
160°	78.1
162.5°	68.5
165°	59.0
167.5°	49.4
170°	40.6
172.5°	36.7
175°	35.1
177.5°	35.1
180°	35.1

(END OF REPORT)