

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: P735804

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L31_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(4000K_L31_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 2 - 31,0000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

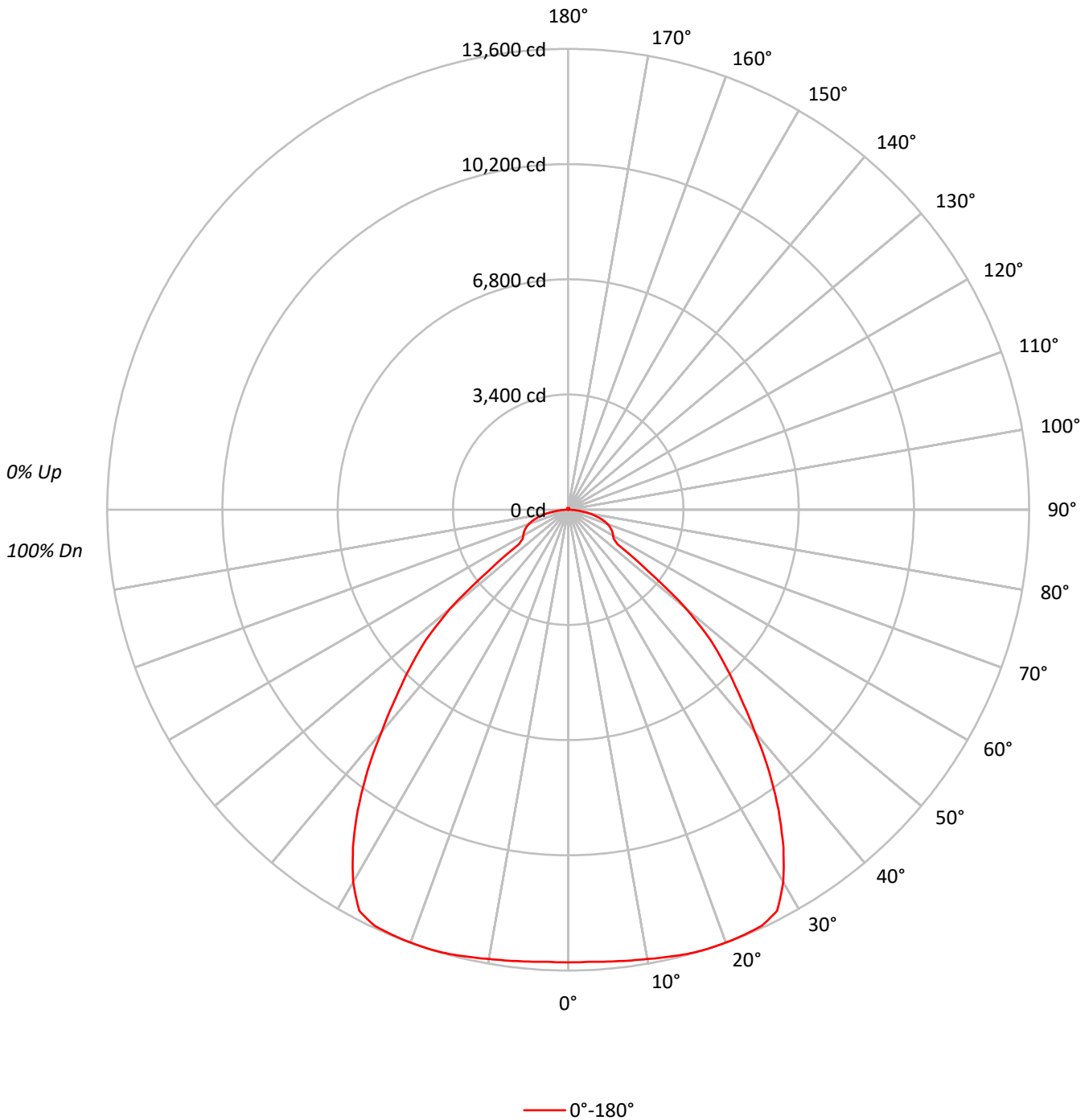
Lumens per Lamp: N/A
Luminaire Lumens: 28017.5 lumens
Efficiency: N/A
Efficacy: 149.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 187.6
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	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		102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95		96	94	92		93	91	90	88
2	103	96	90	86	100	94	89	84	91	86	83		87	84	81		84	81	79	77
3	95	86	80	74	93	85	79	74	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	65	75	69	64		72	67	63		70	66	62	60
5	82	71	64	58	80	70	63	57	68	62	57		66	61	56		64	60	56	54
6	77	65	57	52	75	64	57	51	62	56	51		61	55	51		59	54	50	48
7	72	60	52	47	70	59	52	46	58	51	46		56	50	46		55	49	45	44
8	67	55	47	42	66	54	47	42	53	47	42		52	46	42		51	45	41	40
9	63	51	44	39	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°	62740
5°	59084
10°	56476
15°	54627
20°	52974
25°	51517
30°	47523
35°	40187
40°	31831
45°	24715
50°	17264
55°	6894
60°	6133
65°	5885
70°	5411
75°	4507
80°	3142
85°	1553

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24715 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1280.3	4.6
10°-20°	3844.7	13.7
20°-30°	6194.3	22.1
30°-40°	6704.2	23.9
40°-50°	5069.1	18.1
50°-60°	2075.8	7.4
60°-70°	1389.1	5.0
70°-80°	1006.3	3.6
80°-90°	320.0	1.1
90°-100°	8.9	0.0
100°-110°	11.6	0.0
110°-120°	14.9	0.1
120°-130°	18.0	0.1
130°-140°	23.1	0.1
140°-150°	28.4	0.1
150°-160°	20.8	0.1
160°-170°	6.2	0.0
170°-180°	2.0	0.0
0°-30°	11319.3	40.4
0°-40°	18023.4	64.3
0°-60°	25168.3	89.8
0°-90°	27883.7	99.5
90°-120°	35.3	0.1
90°-150°	104.8	0.4
90°-180°	134.0	0.5
0°-180°	28017.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13360	
5°	13385	###
15°	13574	3845
25°	13542	6194
35°	10821	6704
45°	6611	5069
55°	1776	2076
65°	1411	1389
75°	968	1006
85°	284	302
90°	10	20
95°	8	7
105°	11	12
115°	15	15
125°	20	18
135°	30	23
145°	45	28
155°	46	21
165°	20	6
175°	21	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	13360.0
2.5°	13358.0
5°	13385.0
7.5°	13422.9
10°	13464.8
12.5°	13520.7
15°	13573.6
17.5°	13599.6
20°	13595.6
22.5°	13578.6
25°	13541.7
27.5°	13350.0
30°	12692.3
32.5°	11817.9
35°	10820.8
37.5°	9737.8
40°	8575.0
42.5°	7522.9
45°	6610.6
47.5°	5697.3
50°	4549.5
52.5°	2963.5
55°	1775.7
57.5°	1588.0
60°	1531.1
62.5°	1478.2
65°	1411.4
67.5°	1332.5
70°	1234.7
72.5°	1112.9
75°	968.2
77.5°	801.5
80°	627.8
82.5°	455.1
85°	284.5
87.5°	117.8
90°	10.0
92.5°	7.0
95°	8.0
97.5°	8.0
100°	9.0
102.5°	10.0
105°	11.0
107.5°	12.0
110°	13.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	14.0
115°	15.0
117.5°	16.0
120°	17.0
122.5°	18.0
125°	20.0
127.5°	22.0
130°	24.0
132.5°	26.9
135°	29.9
137.5°	32.9
140°	36.9
142.5°	39.9
145°	44.9
147.5°	50.9
150°	55.9
152.5°	51.9
155°	45.9
157.5°	35.9
160°	28.9
162.5°	22.0
165°	20.0
167.5°	20.0
170°	20.0
172.5°	21.0
175°	21.0
177.5°	22.0
180°	23.0

(END OF REPORT)