

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: P735849

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L31_347V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735849
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: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L31_347V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 2 - 31,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

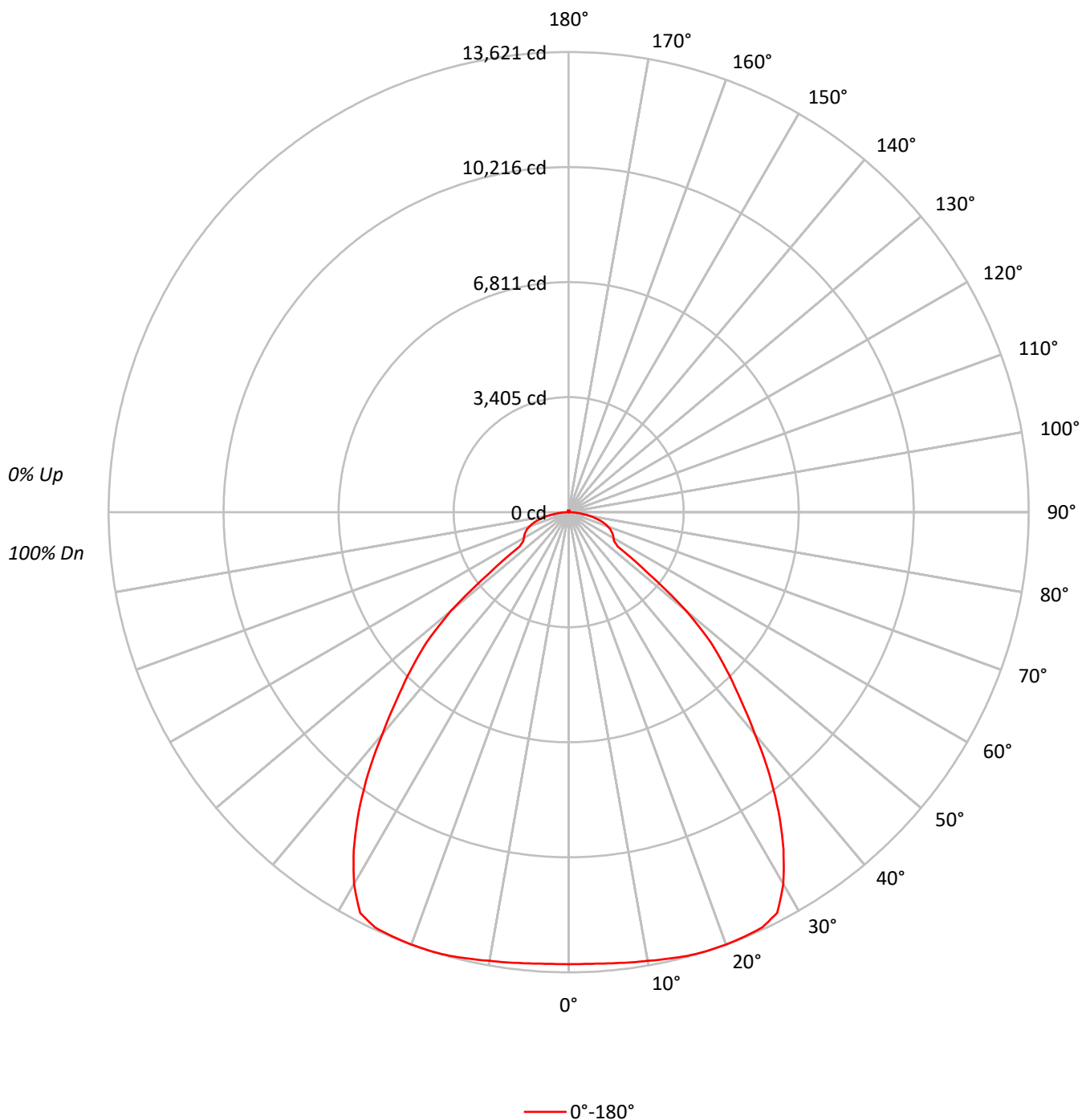
Lumens per Lamp: N/A
Luminaire Lumens: 28062.1 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

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

TEST NUMBER: P735849

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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				0
RW	70	50	30	10	70	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		100
1	111	107	103	100	108	105	101	98	100	98	95		96	94	92		88
2	103	96	90	86	100	94	89	84	91	86	83		87	84	81		77
3	95	86	80	74	93	85	79	74	82	77	72		79	75	71		68
4	88	78	71	65	86	77	70	65	75	69	64		72	67	63		60
5	82	71	64	58	80	70	63	57	68	62	57		66	61	56		54
6	77	65	57	52	75	64	57	51	62	56	51		61	55	51		48
7	72	60	52	47	70	59	52	46	58	51	46		56	50	46		44
8	67	55	47	42	66	54	47	42	53	47	42		52	46	42		40
9	63	51	44	39	62	50	43	38	49	43	38		48	42	38		36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62840
5°	59178
10°	56566
15°	54714
20°	53058
25°	51598
30°	47599
35°	40251
40°	31881
45°	24755
50°	17292
55°	6905
60°	6143
65°	5894
70°	5420
75°	4514
80°	3147
85°	1555

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24755 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1282.3	4.6
10°-20°	3850.8	13.7
20°-30°	6204.1	22.1
30°-40°	6714.8	23.9
40°-50°	5077.1	18.1
50°-60°	2079.1	7.4
60°-70°	1391.3	5.0
70°-80°	1007.9	3.6
80°-90°	320.5	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°	23.2	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°	11337.3	40.4
0°-40°	18052.1	64.3
0°-60°	25208.4	89.8
0°-90°	27928.1	99.5
90°-120°	35.3	0.1
90°-150°	105.0	0.4
90°-180°	134.0	0.5
0°-180°	28062.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13381	
5°	13406	###
15°	13595	3851
25°	13563	6204
35°	10838	6715
45°	6621	5077
55°	1778	2079
65°	1414	1391
75°	970	1008
85°	285	303
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°	13381.3
2.5°	13379.3
5°	13406.3
7.5°	13444.3
10°	13486.2
12.5°	13542.2
15°	13595.2
17.5°	13621.2
20°	13617.2
22.5°	13600.2
25°	13563.2
27.5°	13371.3
30°	12712.5
32.5°	11836.7
35°	10838.0
37.5°	9753.3
40°	8588.6
42.5°	7534.9
45°	6621.2
47.5°	5706.4
50°	4556.7
52.5°	2968.2
55°	1778.5
57.5°	1590.6
60°	1533.6
62.5°	1480.6
65°	1413.6
67.5°	1334.6
70°	1236.7
72.5°	1114.7
75°	969.7
77.5°	802.8
80°	628.8
82.5°	455.9
85°	284.9
87.5°	118.0
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°	27.0
135°	30.0
137.5°	33.0
140°	37.0
142.5°	40.0
145°	45.0
147.5°	51.0
150°	56.0
152.5°	52.0
155°	46.0
157.5°	36.0
160°	29.0
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)