

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: P735848

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-WHTE(5000K_L31_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735848
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(5000K_L31_277V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH WHITE SHADE
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

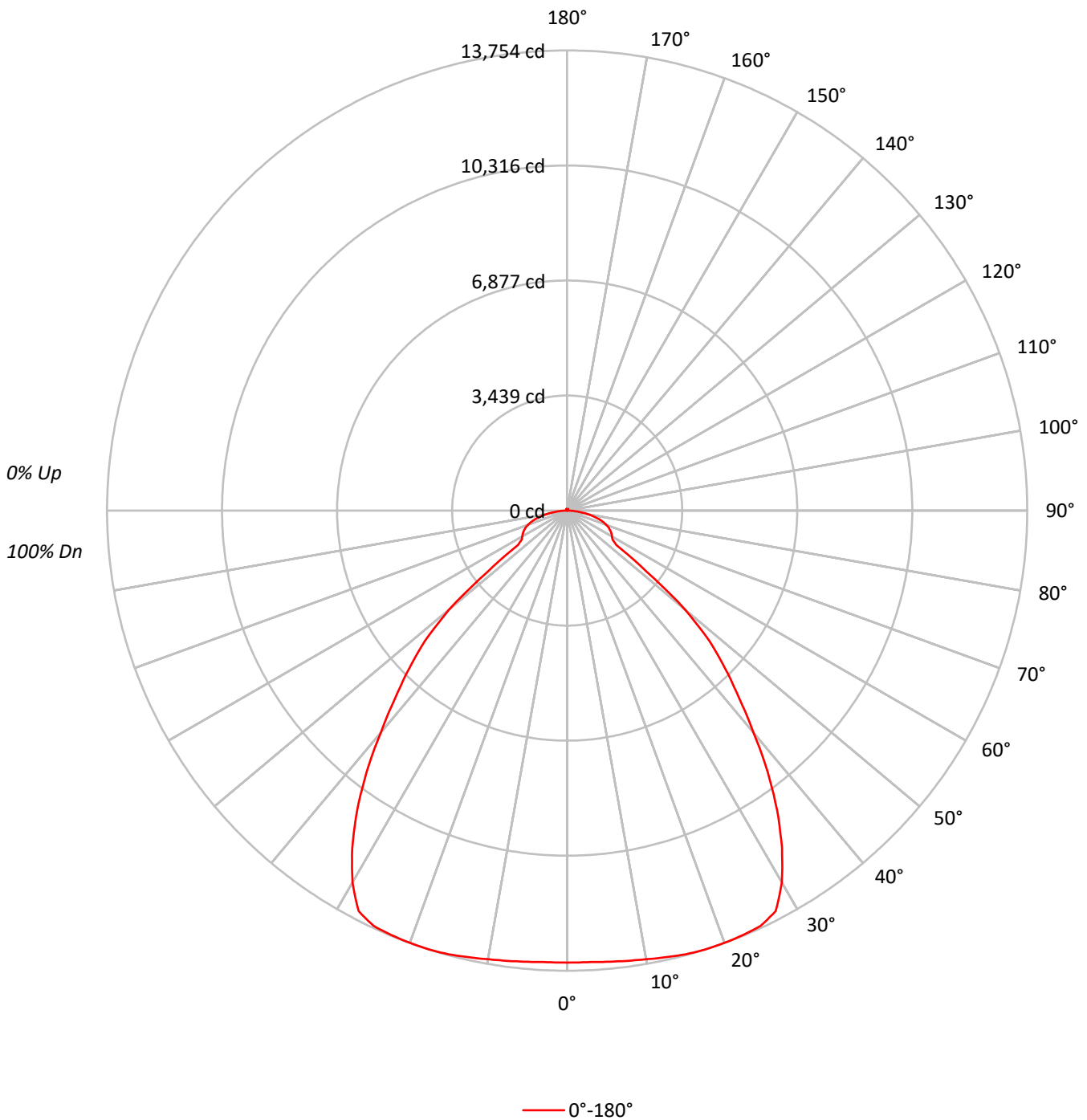
Lumens per Lamp: N/A
Luminaire Lumens: 28335.3 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.25
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 187.9
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	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	50	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°	63452
5°	59754
10°	57117
15°	55247
20°	53575
25°	52101
30°	48062
35°	40643
40°	32192
45°	24995
50°	17460
55°	6972
60°	6203
65°	5952
70°	5472
75°	4559
80°	3178
85°	1570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24995 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1294.8	4.6
10°-20°	3888.3	13.7
20°-30°	6264.5	22.1
30°-40°	6780.2	23.9
40°-50°	5126.6	18.1
50°-60°	2099.4	7.4
60°-70°	1404.8	5.0
70°-80°	1017.7	3.6
80°-90°	323.6	1.1
90°-100°	9.0	0.0
100°-110°	11.7	0.0
110°-120°	15.0	0.1
120°-130°	18.2	0.1
130°-140°	23.4	0.1
140°-150°	28.7	0.1
150°-160°	21.0	0.1
160°-170°	6.3	0.0
170°-180°	2.0	0.0
0°-30°	11447.7	40.4
0°-40°	18227.9	64.3
0°-60°	25453.8	89.8
0°-90°	28200.0	99.5
90°-120°	35.7	0.1
90°-150°	106.0	0.4
90°-180°	135.0	0.5
0°-180°	28335.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13512	
5°	13537	###
15°	13728	3888
25°	13695	6265
35°	10944	6780
45°	6686	5127
55°	1796	2099
65°	1427	1405
75°	979	1018
85°	288	306
90°	10	20
95°	8	7
105°	11	12
115°	15	15
125°	20	18
135°	30	23
145°	45	29
155°	46	21
165°	20	6
175°	21	2
180°	23	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	13511.6
2.5°	13509.6
5°	13536.8
7.5°	13575.2
10°	13617.6
12.5°	13674.1
15°	13727.6
17.5°	13753.8
20°	13749.8
22.5°	13732.7
25°	13695.3
27.5°	13501.5
30°	12836.3
32.5°	11952.0
35°	10943.5
37.5°	9848.3
40°	8672.2
42.5°	7608.3
45°	6685.6
47.5°	5762.0
50°	4601.1
52.5°	2997.1
55°	1795.8
57.5°	1606.0
60°	1548.5
62.5°	1495.0
65°	1427.4
67.5°	1347.6
70°	1248.7
72.5°	1125.5
75°	979.2
77.5°	810.6
80°	634.9
82.5°	460.3
85°	287.7
87.5°	119.1
90°	10.1
92.5°	7.1
95°	8.1
97.5°	8.1
100°	9.1
102.5°	10.1
105°	11.1
107.5°	12.1
110°	13.1

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	14.1
115°	15.1
117.5°	16.2
120°	17.2
122.5°	18.2
125°	20.2
127.5°	22.2
130°	24.2
132.5°	27.3
135°	30.3
137.5°	33.3
140°	37.3
142.5°	40.4
145°	45.4
147.5°	51.5
150°	56.5
152.5°	52.5
155°	46.4
157.5°	36.3
160°	29.3
162.5°	22.2
165°	20.2
167.5°	20.2
170°	20.2
172.5°	21.2
175°	21.2
177.5°	22.2
180°	23.2

(END OF REPORT)