

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: P735776

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(4000K_L31_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735776
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: Prenalux
Catalog Number: PRLX-UHBS-2436-MV-L84050-CLER(4000K_L31_277V)
Description: PRENALLUX LARGE HIGH BAY LUMINAIRE WITH CLEAR SHADE
LIGHT LEVEL 2 - 31,000 NOMINAL LUMENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

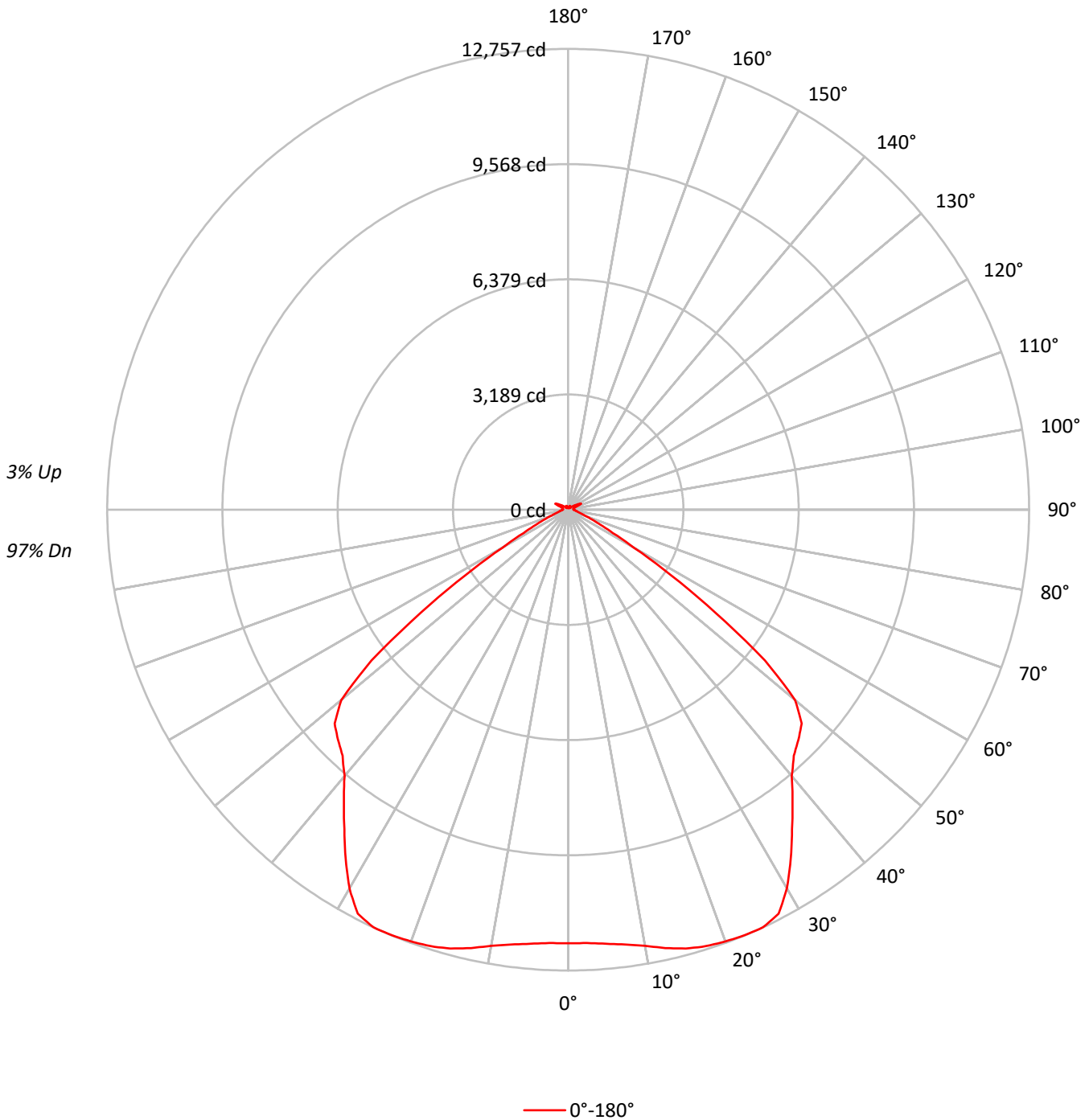
Lumens per Lamp: N/A
Luminaire Lumens: 31475.6 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 189
Input Voltage (V): 277
Input Current (A_{in}): 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	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°	56358
5°	53237
10°	51409
15°	50617
20°	49559
25°	48533
30°	45335
35°	40105
40°	35741
45°	33675
50°	31111
55°	19311
60°	8431
65°	4086
70°	2326
75°	1514
80°	1190
85°	1028

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33675 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1157.3	3.7
10°-20°	3561.7	11.3
20°-30°	5840.8	18.6
30°-40°	6774.0	21.5
40°-50°	6942.5	22.1
50°-60°	4509.4	14.3
60°-70°	1084.2	3.4
70°-80°	366.3	1.2
80°-90°	207.7	0.7
90°-100°	154.5	0.5
100°-110°	177.4	0.6
110°-120°	327.4	1.0
120°-130°	177.7	0.6
130°-140°	60.5	0.2
140°-150°	55.1	0.2
150°-160°	52.7	0.2
160°-170°	21.8	0.1
170°-180°	4.4	0.0
0°-30°	10559.8	33.5
0°-40°	17333.8	55.1
0°-60°	28785.7	91.5
0°-90°	30444.0	96.7
90°-120°	659.3	2.1
90°-150°	952.7	3.0
90°-180°	1032.0	3.3
0°-180°	31475.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12001	
5°	12060	###
15°	12577	3562
25°	12757	5841
35°	10799	6774
45°	9007	6943
55°	4974	4509
65°	980	1084
75°	325	366
85°	188	164
90°	148	83
95°	138	115
105°	157	177
115°	395	327
125°	194	178
135°	70	61
145°	89	55
155°	117	53
165°	74	22
175°	44	4
180°	44	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	12001.0
2.5°	12006.1
5°	12060.4
7.5°	12140.0
10°	12256.8
12.5°	12429.0
15°	12577.1
17.5°	12669.7
20°	12719.1
22.5°	12748.3
25°	12757.3
27.5°	12611.3
30°	12107.8
32.5°	11462.3
35°	10798.6
37.5°	10198.4
40°	9628.4
42.5°	9239.7
45°	9007.1
47.5°	8765.4
50°	8198.4
52.5°	6862.0
55°	4973.8
57.5°	3364.6
60°	2104.7
62.5°	1396.8
65°	979.9
67.5°	713.0
70°	530.7
72.5°	405.8
75°	325.3
77.5°	273.9
80°	237.7
82.5°	209.5
85°	188.3
87.5°	171.2
90°	148.0
92.5°	141.0
95°	138.0
97.5°	140.0
100°	147.0
102.5°	152.1
105°	157.1
107.5°	177.2
110°	223.6

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	309.2
115°	394.8
117.5°	363.5
120°	284.0
122.5°	235.7
125°	194.4
127.5°	155.1
130°	117.8
132.5°	88.6
135°	69.5
137.5°	61.4
140°	62.4
142.5°	72.5
145°	88.6
147.5°	104.7
150°	116.8
152.5°	119.8
155°	116.8
157.5°	108.8
160°	98.7
162.5°	86.6
165°	74.5
167.5°	62.4
170°	51.4
172.5°	46.3
175°	44.3
177.5°	44.3
180°	44.3

(END OF REPORT)