

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: P735818

Luminaire Tested: PRLX-UHBS-2436-MV-L84050-CLER(5000K_L24_277V)

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735818
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_277V)
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

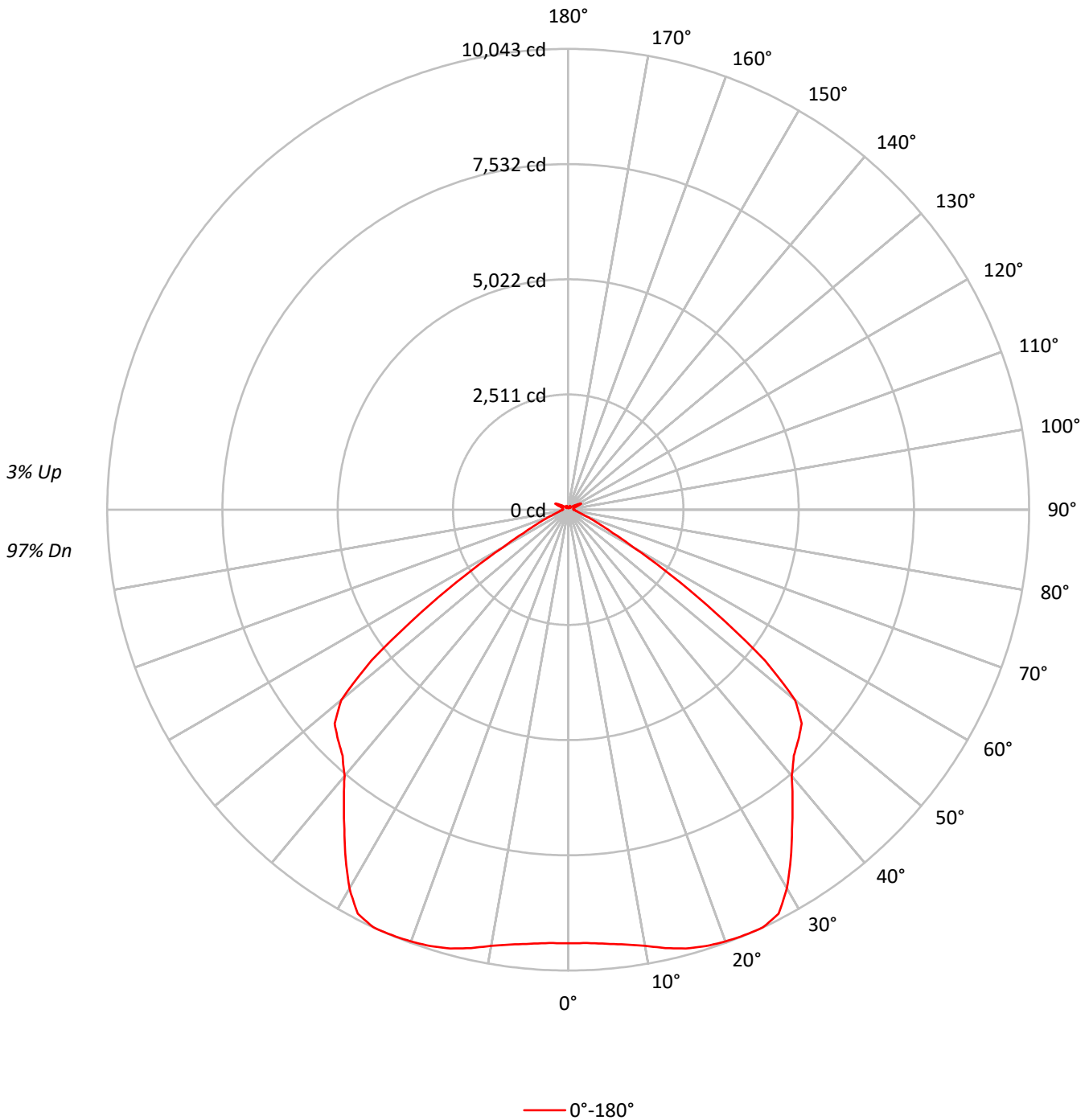
Lumens per Lamp: N/A
Luminaire Lumens: 24778.6 lumens
Efficiency: N/A
Efficacy: 173.9 lumens/watt
Spacing Criteria (0/90/45): 1.39 / 1.39 / 1.46
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

Input Watts (W): 142.5
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	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°	44367
5°	41910
10°	40471
15°	39847
20°	39014
25°	38207
30°	35689
35°	31572
40°	28137
45°	26509
50°	24491
55°	15202
60°	6637
65°	3216
70°	1831
75°	1192
80°	936
85°	809

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.1	3.7
10°-20°	2803.9	11.3
20°-30°	4598.0	18.6
30°-40°	5332.7	21.5
40°-50°	5465.4	22.1
50°-60°	3549.9	14.3
60°-70°	853.5	3.4
70°-80°	288.4	1.2
80°-90°	163.5	0.7
90°-100°	121.6	0.5
100°-110°	139.6	0.6
110°-120°	257.8	1.0
120°-130°	139.9	0.6
130°-140°	47.7	0.2
140°-150°	43.4	0.2
150°-160°	41.5	0.2
160°-170°	17.2	0.1
170°-180°	3.5	0.0
0°-30°	8313.0	33.5
0°-40°	13645.7	55.1
0°-60°	22661.0	91.5
0°-90°	23966.4	96.7
90°-120°	519.0	2.1
90°-150°	750.0	3.0
90°-180°	812.0	3.3
0°-180°	24778.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9448	
5°	9494	911
15°	9901	2804
25°	10043	4598
35°	8501	5333
45°	7091	5465
55°	3916	3550
65°	771	854
75°	256	288
85°	148	129
90°	116	66
95°	109	90
105°	124	140
115°	311	258
125°	153	140
135°	55	48
145°	70	43
155°	92	41
165°	59	17
175°	35	4
180°	35	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	9447.6
2.5°	9451.5
5°	9494.4
7.5°	9557.0
10°	9648.9
12.5°	9784.5
15°	9901.1
17.5°	9974.0
20°	10012.8
22.5°	10035.8
25°	10043.0
27.5°	9928.0
30°	9531.6
32.5°	9023.4
35°	8501.0
37.5°	8028.5
40°	7579.8
42.5°	7273.8
45°	7090.6
47.5°	6900.4
50°	6454.0
52.5°	5402.0
55°	3915.5
57.5°	2648.7
60°	1656.9
62.5°	1099.6
65°	771.4
67.5°	561.3
70°	417.8
72.5°	319.5
75°	256.1
77.5°	215.6
80°	187.1
82.5°	164.9
85°	148.3
87.5°	134.8
90°	116.5
92.5°	111.0
95°	108.6
97.5°	110.2
100°	115.7
102.5°	119.7
105°	123.7
107.5°	139.5
110°	176.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	243.4
115°	310.8
117.5°	286.2
120°	223.6
122.5°	185.5
125°	153.0
127.5°	122.1
130°	92.8
132.5°	69.8
135°	54.7
137.5°	48.4
140°	49.2
142.5°	57.1
145°	69.8
147.5°	82.4
150°	92.0
152.5°	94.3
155°	92.0
157.5°	85.6
160°	77.7
162.5°	68.2
165°	58.7
167.5°	49.2
170°	40.4
172.5°	36.5
175°	34.9
177.5°	34.9
180°	34.9

(END OF REPORT)