

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: P735809

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

Issue Date: 1/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P735809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-243-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS-2436-MV-L84050-BLAK(5000K_L24_277V)
Description: PRENTALUX LARGE HIGH BAY LUMINAIRE WITH BLACK SHADE
LIGHT LEVEL 1 - 24,0000 NOMINAL LUMENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

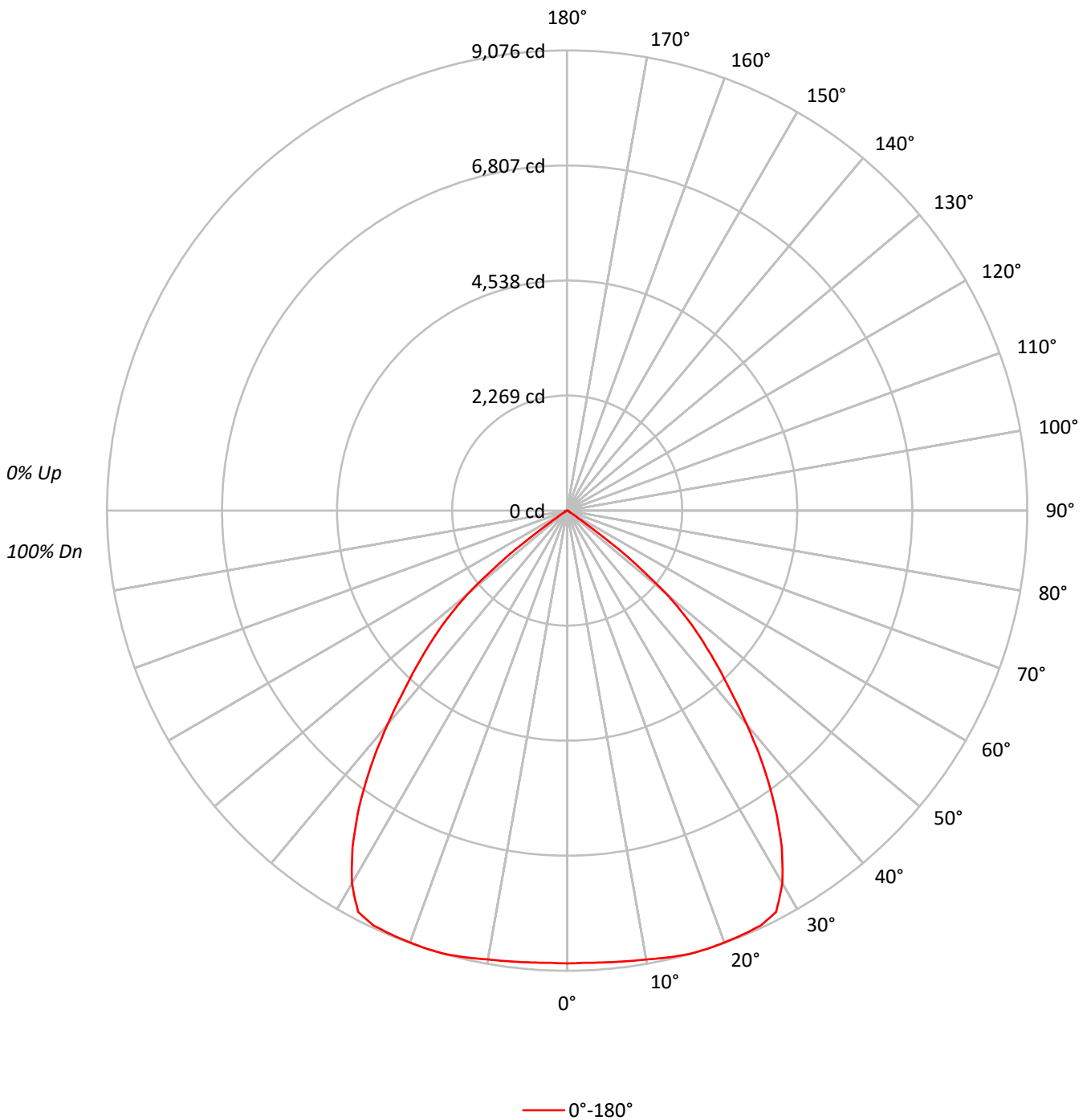
Lumens per Lamp: N/A
Luminaire Lumens: 15857.7 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.23
Luminous Opening: Vertical Cylinder (Dia: 1.71' x H: 1.04')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	106	104	110	107	105	102	103	101	99		99	98	96		96	95	93	91
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89	87	84	83
3	99	91	86	81	97	90	85	80	87	83	79		85	81	78		82	79	76	75
4	93	84	77	72	91	82	76	72	80	75	71		78	74	70		76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64		72	67	63		70	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58		67	61	57		65	61	57	55
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60	56	52	50
8	71	60	53	48	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		52	47	44	42
10	63	52	45	41	62	51	45	40	50	44	40		50	44	40		49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41943
5°	39485
10°	37711
15°	36494
20°	35320
25°	34352
30°	31797
35°	26578
40°	20459
45°	14953
50°	9726
55°	1557
60°	197
65°	175
70°	167
75°	144
80°	103
85°	52

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14953 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.3	5.4
10°-20°	2566.7	16.2
20°-30°	4135.0	26.1
30°-40°	4424.1	27.9
40°-50°	3079.5	19.4
50°-60°	712.2	4.5
60°-70°	42.0	0.3
70°-80°	32.0	0.2
80°-90°	10.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7557.0	47.7
0°-40°	11981.1	75.6
0°-60°	15772.8	99.5
0°-90°	15857.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15857.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8932	
5°	8945	855
15°	9068	2567
25°	9030	4135
35°	7156	4424
45°	4000	3080
55°	401	712
65°	42	42
75°	31	32
85°	10	11
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	8931.5
2.5°	8925.1
5°	8945.0
7.5°	8965.6
10°	8990.9
12.5°	9030.6
15°	9067.8
17.5°	9075.8
20°	9064.7
22.5°	9052.8
25°	9029.8
27.5°	8925.1
30°	8492.3
32.5°	7879.5
35°	7156.4
37.5°	6366.0
40°	5511.4
42.5°	4698.0
45°	3999.6
47.5°	3327.3
50°	2563.1
52.5°	1502.3
55°	401.1
57.5°	68.2
60°	49.2
62.5°	44.4
65°	42.0
67.5°	39.6
70°	38.1
72.5°	34.9
75°	30.9
77.5°	26.2
80°	20.6
82.5°	15.1
85°	9.5
87.5°	4.8
90°	0.0

(END OF REPORT)