

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: P1221401

Luminaire Tested: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (3500K_L24_Narrow_120V)

Issue Date: 1/21/2026

Test Information

Test Method: LM-79-2019
Report Number: P1221401
TEST IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2510-574-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-UHBS2-2436-MV-L8C5-CLER-08 (3500K_L24_Narrow_120V)
Description: PrentaLux UHBS2 SELECTABLE HIGH BAY. 2436 LIGHT ENGINE, CLEAR SHADE, NARROW DISTRIBUTION.
LIGHT LEVEL 1 - 24,000 LUMENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

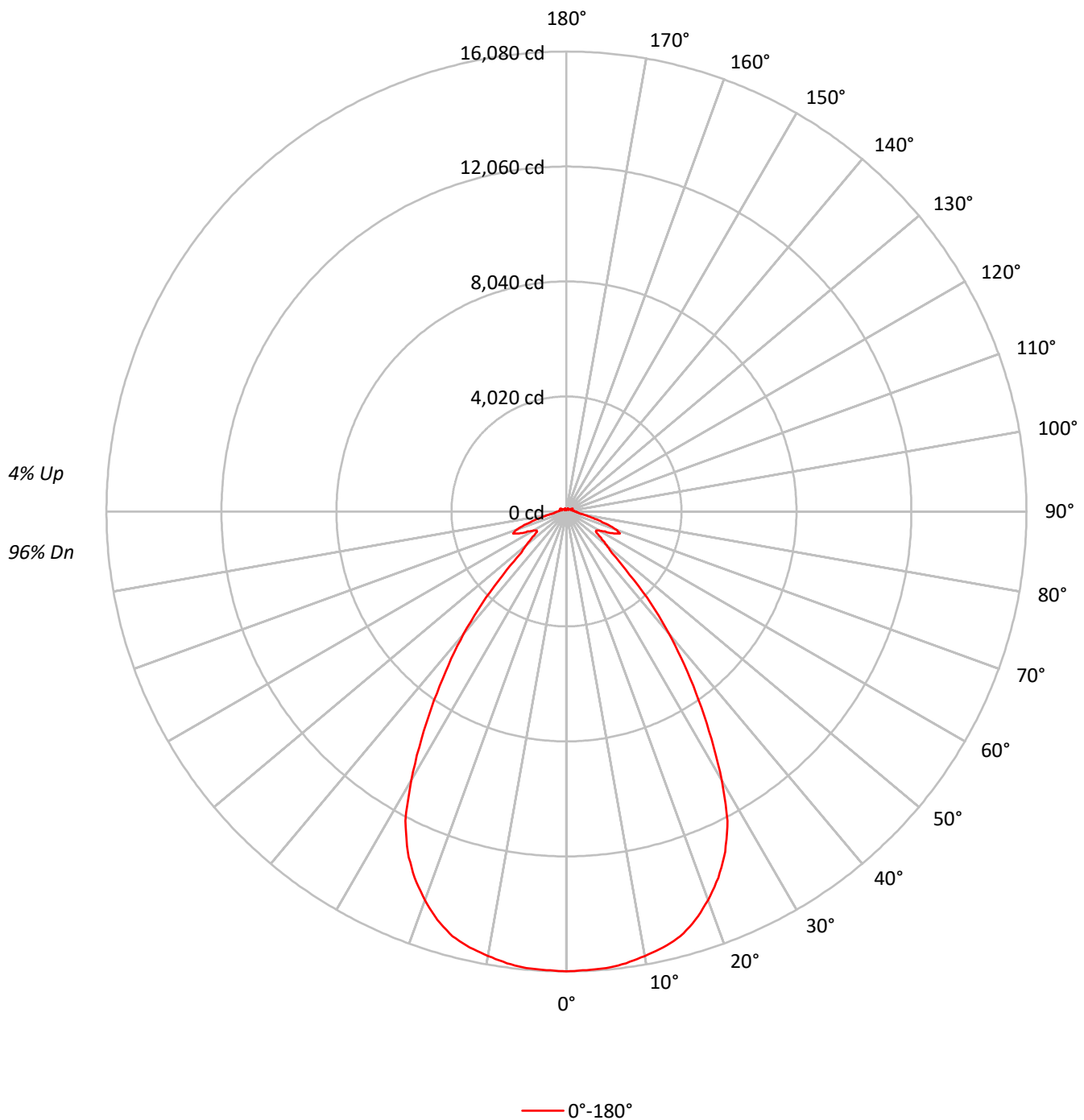
Lumens per Lamp: N/A
Luminaire Lumens: 24973.7 lumens
Efficiency: N/A
Efficacy: 161.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Vertical Cylinder (Dia: 1.54' x H: 0.71')
CIE Type: Direct

Input Watts (W): 154.6
Input Voltage (V): 120
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98
1	110	106	102	99	107	103	100	97	98	95	93	94	91	90	89	88	86
2	102	95	89	84	99	93	88	83	89	84	81	85	81	78	81	79	76
3	95	86	79	74	92	84	78	73	81	76	71	78	73	70	75	71	68
4	88	78	71	65	86	77	70	65	74	68	64	71	66	62	69	65	61
5	83	72	64	59	80	71	64	58	68	62	57	66	61	57	64	59	56
6	78	66	59	53	76	65	58	53	63	57	52	61	56	52	59	55	51
7	73	61	54	49	71	60	53	48	59	52	48	57	51	47	55	50	47
8	69	57	50	45	67	56	49	44	55	48	44	53	48	44	52	47	43
9	65	53	46	41	63	52	46	41	51	45	41	50	44	40	49	44	40
10	61	50	43	38	60	49	43	38	48	42	38	47	41	38	46	41	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	92724
5°	88283
10°	83755
15°	79373
20°	73196
25°	65658
30°	54021
35°	40252
40°	28175
45°	16070
50°	9672
55°	6859
60°	7651
65°	11094
70°	11929
75°	7595
80°	4435
85°	3312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1521.9	6.1
10°-20°	4311.9	17.3
20°-30°	5953.3	23.8
30°-40°	5035.1	20.2
40°-50°	2542.5	10.2
50°-60°	1249.6	5.0
60°-70°	1734.0	6.9
70°-80°	1198.7	4.8
80°-90°	440.5	1.8
90°-100°	276.3	1.1
100°-110°	194.3	0.8
110°-120°	211.0	0.8
120°-130°	99.9	0.4
130°-140°	64.0	0.3
140°-150°	67.5	0.3
150°-160°	48.1	0.2
160°-170°	20.3	0.1
170°-180°	4.7	0.0
0°-30°	11787.1	47.2
0°-40°	16822.2	67.4
0°-60°	20614.4	82.5
0°-90°	23987.6	96.1
90°-120°	681.7	2.7
90°-150°	913.0	3.7
90°-180°	986.0	3.9
0°-180°	24973.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16080	
5°	16032	###
15°	15380	4312
25°	13135	5953
35°	8060	5035
45°	3124	2543
55°	1252	1250
65°	1833	1734
75°	1085	1199
85°	385	352
90°	301	167
95°	252	198
105°	166	194
115°	225	211
125°	106	100
135°	80	64
145°	110	68
155°	106	48
165°	69	20
175°	49	5
180°	48	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	16080.3
2.5°	16050.7
5°	16032.5
7.5°	15932.9
10°	15779.6
12.5°	15620.6
15°	15380.0
17.5°	14984.5
20°	14467.9
22.5°	13869.8
25°	13134.8
27.5°	12192.3
30°	10853.4
32.5°	9424.8
35°	8060.4
37.5°	6770.9
40°	5580.4
42.5°	4371.7
45°	3123.5
47.5°	2152.1
50°	1829.9
52.5°	1521.8
55°	1252.3
57.5°	1235.0
60°	1335.6
62.5°	1523.4
65°	1833.2
67.5°	2022.7
70°	1844.7
72.5°	1469.9
75°	1085.1
77.5°	786.0
80°	576.7
82.5°	446.6
85°	384.8
87.5°	346.0
90°	300.7
92.5°	273.5
95°	252.1
97.5°	233.2
100°	206.8
102.5°	176.3
105°	165.6
107.5°	180.4
110°	218.3

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	240.6
115°	224.9
117.5°	193.6
120°	160.7
122.5°	130.2
125°	105.5
127.5°	87.3
130°	77.4
132.5°	75.0
135°	79.9
137.5°	89.0
140°	98.0
142.5°	105.5
145°	109.6
147.5°	111.2
150°	111.2
152.5°	109.6
155°	105.5
157.5°	98.0
160°	89.0
162.5°	79.1
165°	69.2
167.5°	60.1
170°	51.9
172.5°	49.4
175°	48.6
177.5°	47.8
180°	47.8

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.59	15.84	15.02	16.24	16.66	14.59	15.84	15.02	16.24	16.66
	3H	19.80	20.93	20.25	21.34	21.80	19.80	20.93	20.25	21.34	21.80
	4H	20.60	21.66	21.07	22.10	22.57	20.60	21.66	21.07	22.10	22.57
	6H	20.92	21.90	21.41	22.35	22.84	20.92	21.90	21.41	22.35	22.84
	8H	21.00	21.93	21.50	22.40	22.90	21.00	21.93	21.50	22.40	22.90
	12H	21.06	21.95	21.56	22.41	22.94	21.06	21.95	21.56	22.41	22.94
4H	2H	16.33	17.39	16.80	17.82	18.30	16.33	17.39	16.80	17.82	18.30
	3H	20.86	21.75	21.34	22.23	22.73	20.86	21.75	21.34	22.23	22.73
	4H	21.66	22.47	22.16	22.96	23.49	21.66	22.47	22.16	22.96	23.49
	6H	22.03	22.73	22.56	23.25	23.80	22.03	22.73	22.56	23.25	23.80
	8H	22.12	22.77	22.65	23.29	23.86	22.12	22.77	22.65	23.29	23.86
	12H	22.21	22.79	22.76	23.34	23.91	22.21	22.79	22.76	23.34	23.91
8H	4H	21.88	22.53	22.41	23.05	23.61	21.88	22.53	22.41	23.05	23.61
	6H	22.30	22.84	22.87	23.41	23.98	22.30	22.84	22.87	23.41	23.98
	8H	22.44	22.92	23.03	23.50	24.08	22.44	22.92	23.03	23.50	24.08
	12H	22.59	23.01	23.17	23.57	24.23	22.59	23.01	23.17	23.57	24.23
12H	4H	21.86	22.44	22.41	23.00	23.56	21.86	22.44	22.41	23.00	23.56
	6H	22.30	22.78	22.89	23.36	23.95	22.30	22.78	22.89	23.36	23.95
	8H	22.48	22.90	23.06	23.46	24.12	22.48	22.90	23.06	23.46	24.12