

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730615

Luminaire Tested: **HBLED-LD5-18SE-W-A-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23761)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-A-UNV-L850
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND PRISMATIC ACRYLIC LENS & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16789.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

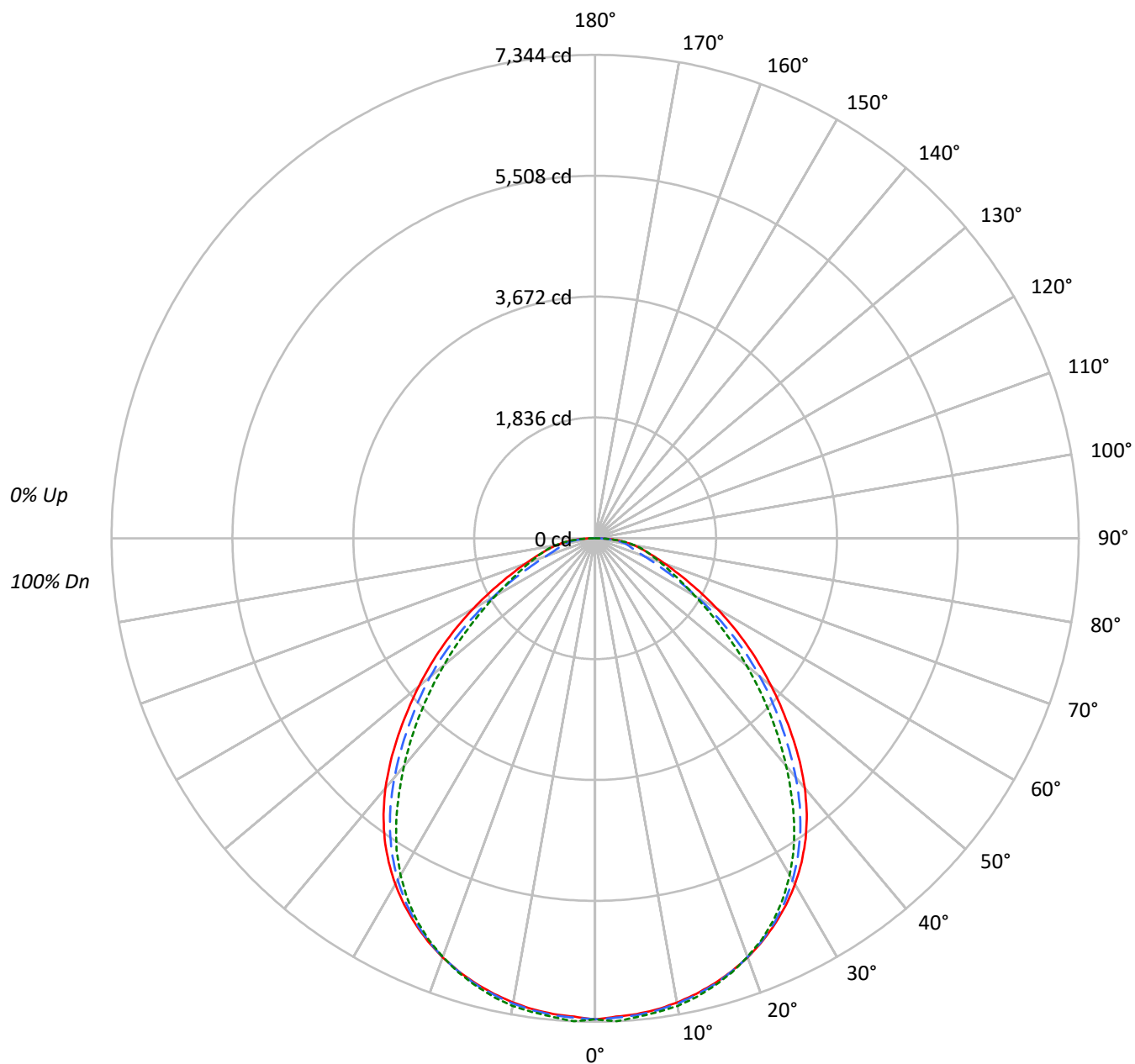
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73		
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55		
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49		
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38		
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11800	11800	11800
5°	11759	11785	11833
10°	11742	11769	11828
15°	11703	11726	11754
20°	11641	11633	11624
25°	11515	11475	11411
30°	11316	11179	11017
35°	10987	10711	10381
40°	10441	9993	9513
45°	9645	9107	8556
50°	8768	8201	7526
55°	7884	7100	6506
60°	6899	5802	5645
65°	5948	4563	5095
70°	5304	3724	4911
75°	5080	3635	5132
80°	5495	4299	5716
85°	6169	5176	6230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.7	4.1
10°-20°	1982.4	11.8
20°-30°	2965.4	17.7
30°-40°	3383.3	20.2
40°-50°	3079.8	18.3
50°-60°	2261.4	13.5
60°-70°	1335.3	8.0
70°-80°	765.2	4.6
80°-90°	323.6	1.9
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°	5640.5	33.6
0°-40°	9023.8	53.7
0°-60°	14365.0	85.6
0°-90°	16789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7308	7308	7308	7308	7308	
5°	7255	7300	7271	7300	7301	690
15°	7001	7040	7015	7040	7032	1976
25°	6464	6487	6441	6439	6405	2975
35°	5574	5547	5434	5341	5267	3473
45°	4224	4200	3988	3810	3747	3255
55°	2801	2671	2522	2339	2311	2505
65°	1557	1359	1194	1278	1334	1567
75°	814	698	583	760	823	878
85°	333	307	279	330	336	348
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7308.5	7308.5	7308.5	7308.5	7308.5
2.5°	7274.7	7316.8	7290.4	7319.2	7344.0
5°	7255.0	7300.3	7271.4	7300.3	7301.1
7.5°	7218.7	7260.7	7232.7	7264.0	7260.7
10°	7161.8	7203.9	7178.3	7212.1	7214.6
12.5°	7089.3	7129.7	7103.3	7142.1	7135.5
15°	7001.1	7039.8	7015.1	7039.8	7031.6
17.5°	6897.2	6932.7	6900.6	6927.8	6913.8
20°	6775.2	6804.9	6770.3	6795.8	6765.4
22.5°	6629.4	6655.7	6619.5	6633.5	6602.1
25°	6463.7	6486.7	6441.4	6439.0	6405.2
27.5°	6279.0	6291.4	6233.7	6213.9	6175.2
30°	6069.7	6073.0	5996.3	5959.3	5909.0
32.5°	5834.8	5826.6	5728.4	5673.3	5611.4
35°	5574.3	5547.1	5434.2	5341.1	5266.9
37.5°	5280.1	5237.2	5102.1	4964.4	4893.5
40°	4953.7	4903.4	4741.0	4570.4	4513.5
42.5°	4598.5	4555.6	4364.4	4186.3	4130.3
45°	4224.2	4199.5	3988.5	3809.6	3747.0
47.5°	3850.0	3831.9	3625.9	3443.7	3367.8
50°	3490.7	3451.1	3264.8	3065.3	2996.1
52.5°	3142.0	3061.2	2897.2	2692.8	2641.7
55°	2800.8	2671.4	2522.2	2339.2	2311.2
57.5°	2462.8	2295.5	2150.5	2013.6	2012.8
60°	2136.5	1945.2	1796.8	1725.1	1748.2
62.5°	1830.6	1634.4	1473.7	1478.7	1520.7
65°	1557.0	1359.2	1194.3	1277.6	1333.6
67.5°	1322.1	1133.3	966.0	1121.0	1174.5
70°	1123.5	952.8	788.8	982.5	1040.2
72.5°	956.1	812.7	665.2	867.1	925.6
75°	814.4	698.1	582.7	760.0	822.6
77.5°	699.0	595.9	522.6	657.7	722.8
80°	591.0	500.3	462.4	558.9	614.8
82.5°	468.1	405.6	383.3	454.1	483.0
85°	333.0	307.4	279.4	329.7	336.3
87.5°	183.0	189.6	156.6	189.6	190.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)