

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: P730639

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23766)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-CLI-UNV-L850
Description: 18000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND CLEAR ACRYLIC LENS
INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17744.0 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

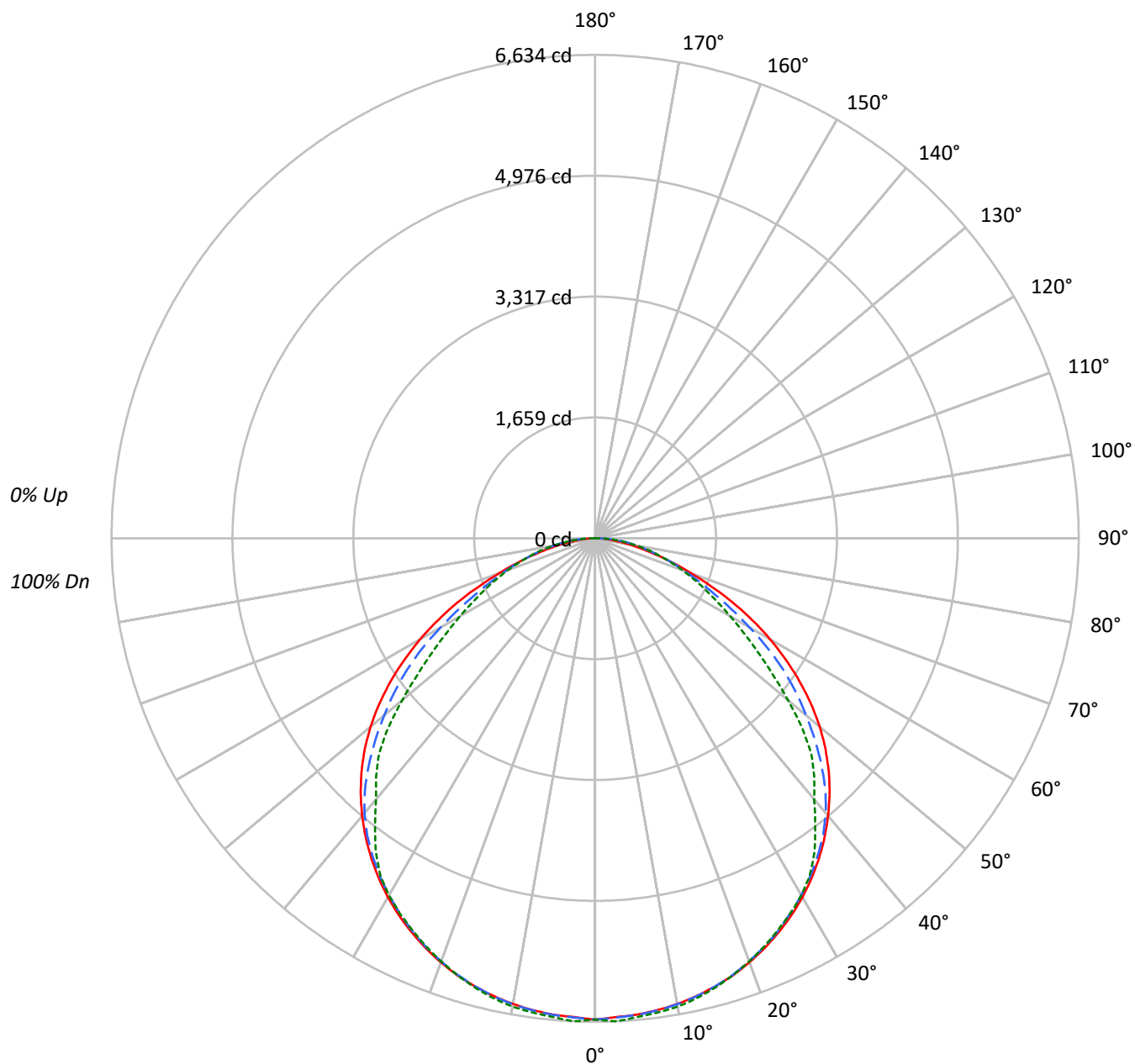
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10663	10663	10663
5°	10635	10643	10690
10°	10641	10646	10702
15°	10642	10641	10666
20°	10639	10615	10617
25°	10623	10584	10571
30°	10606	10542	10548
35°	10556	10491	10342
40°	10481	10374	9851
45°	10348	10017	9579
50°	10099	9483	8675
55°	9639	8869	7671
60°	8945	7914	6918
65°	7951	6852	6361
70°	6599	6123	5996
75°	5337	5604	5673
80°	4239	5359	5337
85°	3320	5758	5493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.3	3.5
10°-20°	1801.6	10.2
20°-30°	2747.1	15.5
30°-40°	3323.6	18.7
40°-50°	3366.5	19.0
50°-60°	2782.5	15.7
60°-70°	1837.8	10.4
70°-80°	958.3	5.4
80°-90°	300.4	1.7
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°	5175.0	29.2
0°-40°	8498.6	47.9
0°-60°	14647.5	82.5
0°-90°	17744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6604	6604	6604	6604	6604	
5°	6562	6601	6566	6595	6596	624
15°	6367	6399	6366	6386	6381	1798
25°	5963	5987	5941	5956	5934	2750
35°	5356	5363	5322	5315	5247	3350
45°	4532	4520	4387	4250	4195	3490
55°	3424	3374	3151	2845	2725	3052
65°	2081	2021	1793	1677	1665	2056
75°	856	870	898	910	909	932
85°	179	231	311	308	296	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6604.4	6604.4	6604.4	6604.4	6604.4
2.5°	6576.7	6615.5	6583.0	6611.5	6634.5
5°	6561.6	6601.3	6566.4	6594.9	6595.7
7.5°	6532.3	6571.9	6536.2	6564.8	6564.0
10°	6490.2	6527.5	6493.4	6527.5	6527.5
12.5°	6433.2	6469.6	6436.4	6468.0	6463.3
15°	6366.6	6399.1	6365.8	6385.6	6380.8
17.5°	6288.1	6317.4	6280.1	6296.8	6287.3
20°	6192.1	6219.1	6177.9	6199.3	6179.4
22.5°	6084.3	6109.6	6067.6	6083.6	6061.3
25°	5963.0	5986.8	5940.8	5955.9	5933.7
27.5°	5832.2	5853.6	5802.0	5820.3	5802.8
30°	5688.7	5699.0	5654.6	5678.4	5657.8
32.5°	5528.5	5534.9	5496.0	5517.4	5482.5
35°	5355.7	5362.8	5322.4	5315.2	5247.1
37.5°	5170.9	5174.1	5136.1	5071.8	4959.3
40°	4972.8	4971.2	4922.0	4773.7	4673.8
42.5°	4761.0	4760.3	4673.8	4504.9	4447.9
45°	4531.9	4520.0	4386.8	4250.4	4194.9
47.5°	4286.2	4273.4	4087.1	3978.5	3852.4
50°	4020.5	3998.3	3775.5	3627.2	3453.7
52.5°	3734.3	3700.2	3473.5	3234.0	3069.9
55°	3424.3	3373.5	3150.8	2844.8	2725.0
57.5°	3101.6	3026.3	2809.8	2511.8	2414.2
60°	2770.2	2686.1	2450.7	2205.7	2142.2
62.5°	2429.3	2346.1	2105.8	1921.1	1886.2
65°	2081.2	2020.9	1793.4	1676.9	1665.0
67.5°	1724.4	1703.0	1529.4	1470.0	1465.2
70°	1397.8	1393.8	1297.1	1266.9	1270.1
72.5°	1117.1	1112.4	1098.1	1083.0	1083.8
75°	855.5	870.5	898.3	910.2	909.4
77.5°	638.2	669.2	727.8	751.6	747.6
80°	455.9	501.9	576.4	598.6	574.0
82.5°	303.6	352.0	440.0	443.2	423.4
85°	179.2	230.7	310.8	308.4	296.5
87.5°	88.8	138.7	186.3	178.4	170.5
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)