

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: P731053

Luminaire Tested: **HBLED-LD5-36SE-W-WG-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-WG-UNV-L850
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND WIREGUARD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35382.0 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

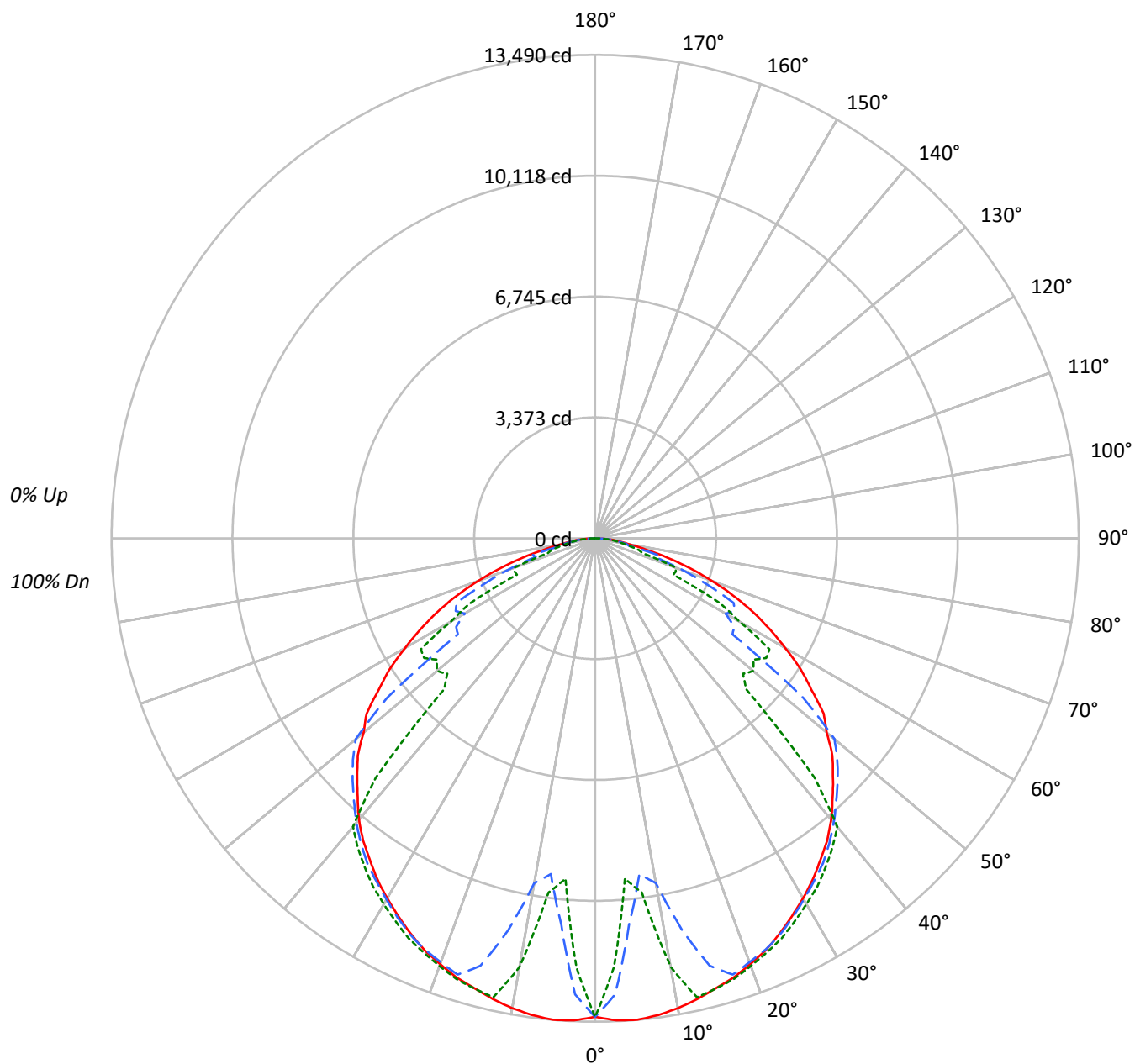
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39		
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35		
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31		
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21564	21564	21564
5°	21863	17564	15447
10°	21826	16019	19922
15°	21729	20645	21748
20°	21729	21631	21823
25°	21690	21739	21938
30°	21627	21699	21979
35°	21593	21833	22088
40°	21596	21831	22145
45°	21427	21846	13576
50°	21184	21890	14469
55°	20737	13162	16399
60°	19782	13568	15017
65°	18535	16290	9188
70°	16367	12341	11263
75°	13041	11218	7811
80°	8984	8107	6712
85°	8609	7484	7101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1068.0	3.0
10°-20°	3345.8	9.5
20°-30°	5504.6	15.6
30°-40°	6921.3	19.6
40°-50°	6788.1	19.2
50°-60°	5624.2	15.9
60°-70°	3966.9	11.2
70°-80°	1730.7	4.9
80°-90°	432.4	1.2
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°	9918.4	28.0
0°-40°	16839.7	47.6
0°-60°	29252.0	82.7
0°-90°	35382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13356	13356	13356	13356	13356	
5°	13490	12555	10837	9826	9531	###
15°	12999	9028	12351	13051	13011	3676
25°	12175	11141	12202	12284	12314	5612
35°	10955	10949	11077	11150	11206	6864
45°	9384	9413	9568	8474	5946	7243
55°	7367	7608	4676	5316	5826	6591
65°	4852	5137	4264	3280	2405	4770
75°	2090	2049	1798	1175	1252	2242
85°	465	414	404	386	383	482
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13355.6	13355.6	13355.6	13355.6	13355.6
2.5°	13465.8	13186.3	12742.3	12183.3	11985.4
5°	13489.7	12555.4	10837.1	9826.3	9530.7
7.5°	13421.1	11410.4	9447.8	9660.1	9973.2
10°	13312.5	10404.4	9770.4	11495.1	12151.4
12.5°	13173.5	9510.0	11193.2	12985.1	13115.9
15°	12999.4	9027.8	12351.1	13050.6	13010.6
17.5°	12852.5	9310.4	12766.3	12919.5	12890.8
20°	12646.4	9874.2	12589.0	12712.0	12700.8
22.5°	12438.9	10541.6	12421.3	12509.2	12509.2
25°	12175.4	11140.6	12202.5	12284.0	12314.4
27.5°	11886.3	11485.4	11929.4	11996.4	12050.8
30°	11600.4	11535.0	11638.8	11725.1	11788.9
32.5°	11298.7	11273.2	11354.5	11445.6	11527.0
35°	10955.2	10948.9	11076.6	11150.1	11206.1
37.5°	10632.6	10610.4	10728.5	10830.7	10873.8
40°	10246.3	10246.3	10358.0	10461.8	10506.6
42.5°	9805.4	9867.8	9954.0	10060.9	9061.3
45°	9383.8	9412.6	9567.5	8473.7	5945.5
47.5°	8978.2	9014.9	9161.9	5447.3	5595.9
50°	8433.7	8599.7	8714.7	5431.4	5760.4
52.5°	8036.1	8107.8	7315.7	5377.1	5562.3
55°	7366.9	7608.0	4675.9	5316.4	5825.7
57.5°	6795.2	6970.9	4597.8	5447.3	5763.5
60°	6126.1	6394.3	4201.6	5255.7	4650.4
62.5°	5484.0	5739.5	4386.9	4136.2	3938.1
65°	4851.6	5137.4	4264.0	3280.2	2405.0
67.5°	4158.5	3891.9	3401.6	2310.9	2432.2
70°	3467.1	2718.1	2614.3	2584.0	2385.9
72.5°	2756.4	1983.5	1735.9	1938.8	1387.8
75°	2090.5	2049.0	1798.3	1175.4	1252.1
77.5°	1450.0	1478.8	962.9	1146.6	951.7
80°	966.2	836.9	871.9	731.4	721.9
82.5°	669.1	683.5	573.3	555.7	563.8
85°	464.7	413.6	404.0	386.5	383.3
87.5°	154.8	180.5	167.8	151.7	161.4
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)