

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: P731041

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

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P731041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26703)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-FLI-UNV-L850
Description: 36000 LUMEN, SE HBLED WITH WIDE DISTRIBUTION AND FROSTED LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33176.0 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

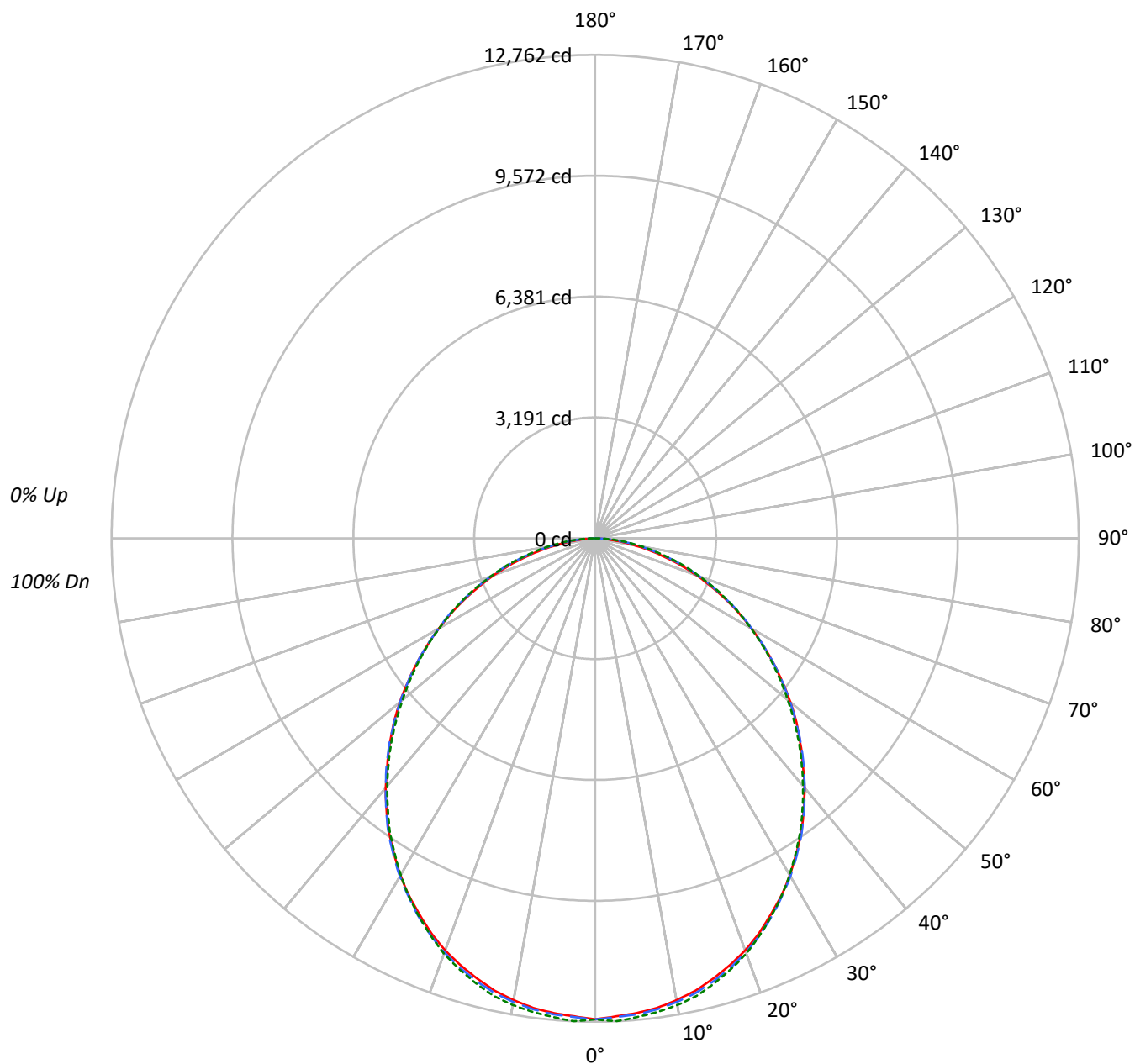
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51		
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45		
6	71	58	49	42	69	57	48	42	55	47	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	34	46	39	33	45	38	33	43	37	33	31		
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20506	20506	20506
5°	20390	20447	20564
10°	20297	20379	20512
15°	20119	20228	20327
20°	19891	19987	20045
25°	19523	19634	19605
30°	19163	19214	19136
35°	18688	18736	18617
40°	18126	18126	17987
45°	17493	17541	17361
50°	16891	16863	16652
55°	16160	16163	16017
60°	15378	15396	15336
65°	14493	14638	14675
70°	13387	13753	13768
75°	11830	12596	12793
80°	9703	11031	11655
85°	6734	9263	10474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1201.2	3.6
10°-20°	3417.1	10.3
20°-30°	5078.0	15.3
30°-40°	5937.5	17.9
40°-50°	5919.8	17.8
50°-60°	5136.2	15.5
60°-70°	3793.7	11.4
70°-80°	2124.0	6.4
80°-90°	566.7	1.7
90°-100°	1.7	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°	9696.2	29.2
0°-40°	15633.7	47.1
0°-60°	26689.8	80.4
0°-90°	33174.3	100.0
90°-120°	1.7	0.0
90°-150°	1.7	0.0
90°-180°	2.0	0.0
0°-180°	33176.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12701	12701	12701	12701	12701	
5°	12580	12660	12616	12672	12688	###
15°	12036	12120	12101	12160	12160	3394
25°	10958	11047	11021	11045	11005	5052
35°	9481	9564	9506	9504	9445	5923
45°	7661	7742	7682	7650	7603	5914
55°	5741	5780	5742	5732	5690	5134
65°	3794	3831	3832	3851	3841	3752
75°	1896	1953	2019	2034	2051	2020
85°	364	439	500	544	565	441
90°	0	8	10	22	20	15
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12700.7	12700.7	12700.7	12700.7	12700.7
2.5°	12631.3	12706.5	12653.8	12704.0	12762.2
5°	12580.4	12659.6	12615.9	12671.6	12687.8
7.5°	12506.1	12582.9	12540.8	12596.6	12613.5
10°	12380.0	12463.3	12430.2	12493.2	12511.0
12.5°	12233.1	12311.4	12289.6	12363.1	12375.2
15°	12036.0	12120.1	12101.4	12159.6	12160.4
17.5°	11817.9	11897.0	11883.3	11928.6	11926.9
20°	11576.5	11661.2	11632.2	11681.4	11666.0
22.5°	11290.6	11381.0	11344.6	11385.8	11347.1
25°	10958.5	11046.6	11020.8	11044.9	11004.6
27.5°	10637.1	10717.9	10664.5	10693.6	10650.8
30°	10278.5	10347.1	10306.0	10315.7	10264.0
32.5°	9875.5	9957.0	9906.9	9905.3	9850.4
35°	9481.3	9564.4	9505.6	9503.9	9445.1
37.5°	9045.2	9122.7	9053.3	9057.3	8988.7
40°	8600.1	8667.2	8600.1	8596.9	8534.0
42.5°	8117.1	8206.0	8144.7	8151.8	8067.9
45°	7660.9	7742.4	7681.9	7650.3	7603.4
47.5°	7206.2	7241.7	7191.5	7183.5	7117.3
50°	6724.7	6751.3	6713.4	6703.7	6629.5
52.5°	6227.2	6273.3	6224.7	6211.8	6162.6
55°	5740.9	5780.5	5741.7	5732.1	5690.0
57.5°	5251.5	5303.2	5263.7	5253.9	5220.1
60°	4762.1	4777.4	4767.7	4782.2	4749.2
62.5°	4275.9	4311.3	4322.7	4318.7	4292.8
65°	3793.6	3830.8	3831.6	3851.1	3841.2
67.5°	3300.2	3348.6	3362.4	3382.5	3391.4
70°	2835.7	2872.9	2913.4	2925.3	2916.5
72.5°	2368.1	2427.8	2473.1	2483.6	2521.6
75°	1896.4	1952.9	2019.2	2033.7	2050.7
77.5°	1458.7	1533.7	1593.5	1613.0	1634.0
80°	1043.6	1126.7	1186.4	1213.1	1253.5
82.5°	684.9	769.7	830.3	856.9	906.3
85°	363.5	439.4	500.0	544.3	565.4
87.5°	107.4	172.0	206.7	219.6	238.3
90°	0.0	8.1	9.7	21.8	20.2
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)