

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: P730999

Luminaire Tested: **HBLED-LD5-36SE-N-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLI-UNV-L850
Description: 36000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33288.0 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

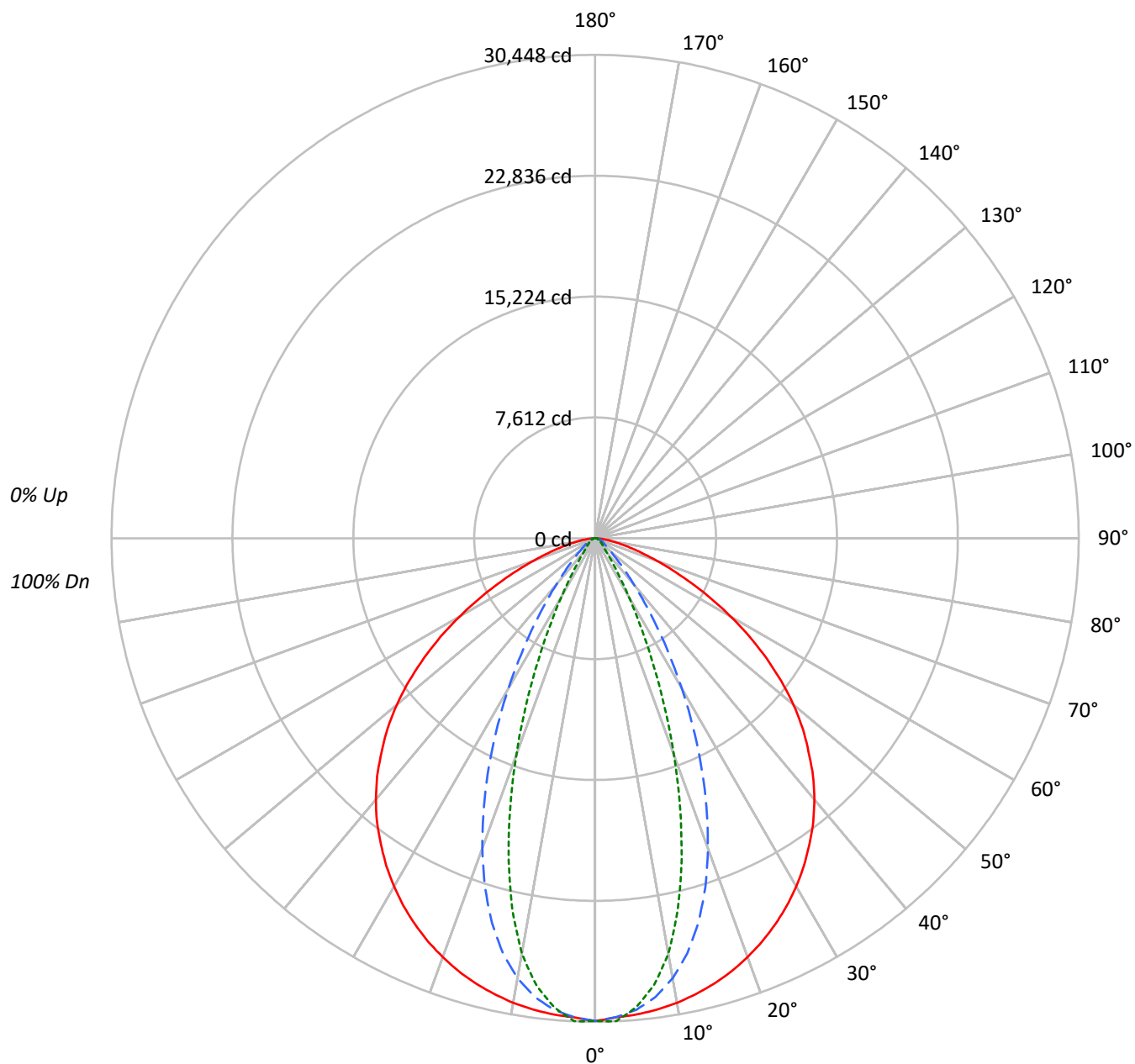
Input Watts (W): 227.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	49093	49093	49093
5°	48798	48313	48058
10°	48716	46125	43526
15°	48520	41927	35152
20°	48229	35676	24914
25°	47798	28131	15053
30°	47217	20303	7736
35°	46365	13273	3864
40°	45265	7973	2255
45°	43385	4761	1686
50°	40920	3113	1416
55°	37034	2362	1235
60°	31826	2012	1127
65°	25600	1836	1064
70°	19286	1966	1058
75°	14186	1868	1089
80°	10378	1861	1192
85°	7773	2256	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2800.2	8.4
10°-20°	6966.4	20.9
20°-30°	7716.3	23.2
30°-40°	6182.1	18.6
40°-50°	4413.3	13.3
50°-60°	2834.7	8.5
60°-70°	1536.2	4.6
70°-80°	656.6	2.0
80°-90°	182.1	0.5
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°	17483.0	52.5
0°-40°	23665.1	71.1
0°-60°	30913.1	92.9
0°-90°	33288.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33288.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30406	30406	30406	30406	30406	
5°	30108	30220	29809	29714	29652	###
15°	29027	28119	25083	22166	21029	8190
25°	26830	23657	15791	10288	8450	12360
35°	23523	17014	6734	2716	1960	14708
45°	19000	9822	2085	887	738	14645
55°	13156	4391	839	516	439	11725
65°	6701	1803	480	332	279	6710
75°	2274	660	300	208	174	2527
85°	420	174	122	101	83	512
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30406.1	30406.1	30406.1	30406.1	30406.1
2.5°	30206.0	30395.0	30191.5	30318.0	30447.7
5°	30108.3	30220.5	29808.8	29714.2	29651.9
7.5°	29938.5	29906.5	29133.1	28631.7	28389.8
10°	29714.2	29454.8	28133.6	27031.8	26548.2
12.5°	29394.0	28859.1	26780.3	24845.7	24025.8
15°	29027.3	28119.3	25082.7	22166.5	21029.4
17.5°	28588.4	27254.4	23053.6	19293.4	17792.7
20°	28069.6	26210.2	20763.6	16240.9	14500.0
22.5°	27489.9	25005.9	18311.6	13197.9	11330.7
25°	26830.0	23657.4	15790.9	10288.1	8449.5
27.5°	26117.4	22160.1	13284.5	7687.2	6010.4
30°	25326.2	20539.3	10890.2	5542.9	4149.5
32.5°	24463.0	18816.1	8665.8	3898.0	2837.9
35°	23523.0	17014.4	6734.2	2716.1	1960.2
37.5°	22560.4	15175.9	5086.4	1920.1	1406.1
40°	21476.1	13343.7	3782.8	1406.1	1069.7
42.5°	20311.9	11546.9	2799.5	1082.5	866.4
45°	19000.3	9822.0	2085.2	887.3	738.4
47.5°	17728.7	8214.2	1583.9	755.9	642.2
50°	16290.6	6763.2	1239.5	659.9	563.7
52.5°	14764.3	5486.8	1005.7	581.4	496.5
55°	13156.3	4391.3	839.1	515.7	438.8
57.5°	11527.7	3478.4	717.5	459.6	390.8
60°	9855.7	2781.8	623.0	411.6	349.1
62.5°	8223.8	2224.5	544.5	369.9	312.3
65°	6700.7	1803.2	480.5	331.5	278.6
67.5°	5292.9	1425.4	448.4	297.8	251.5
70°	4085.4	1109.8	416.4	265.8	224.2
72.5°	3095.6	852.1	368.4	237.0	198.6
75°	2274.1	659.9	299.5	208.2	174.5
77.5°	1627.2	507.7	243.4	180.9	150.6
80°	1116.2	378.0	200.1	155.3	128.2
82.5°	725.6	267.5	161.7	128.2	105.6
85°	419.6	174.5	121.8	100.9	83.2
87.5°	180.9	96.0	83.2	75.3	64.0
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)