

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: P730947

Luminaire Tested: **HBLED-LD5-36HE-N-CLI-UNV-L740**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730947
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-LD5-36HE-N-CLI-UNV-L740
Description: 36000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33763.0 lumens
Efficiency: N/A
Efficacy: 160.8 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

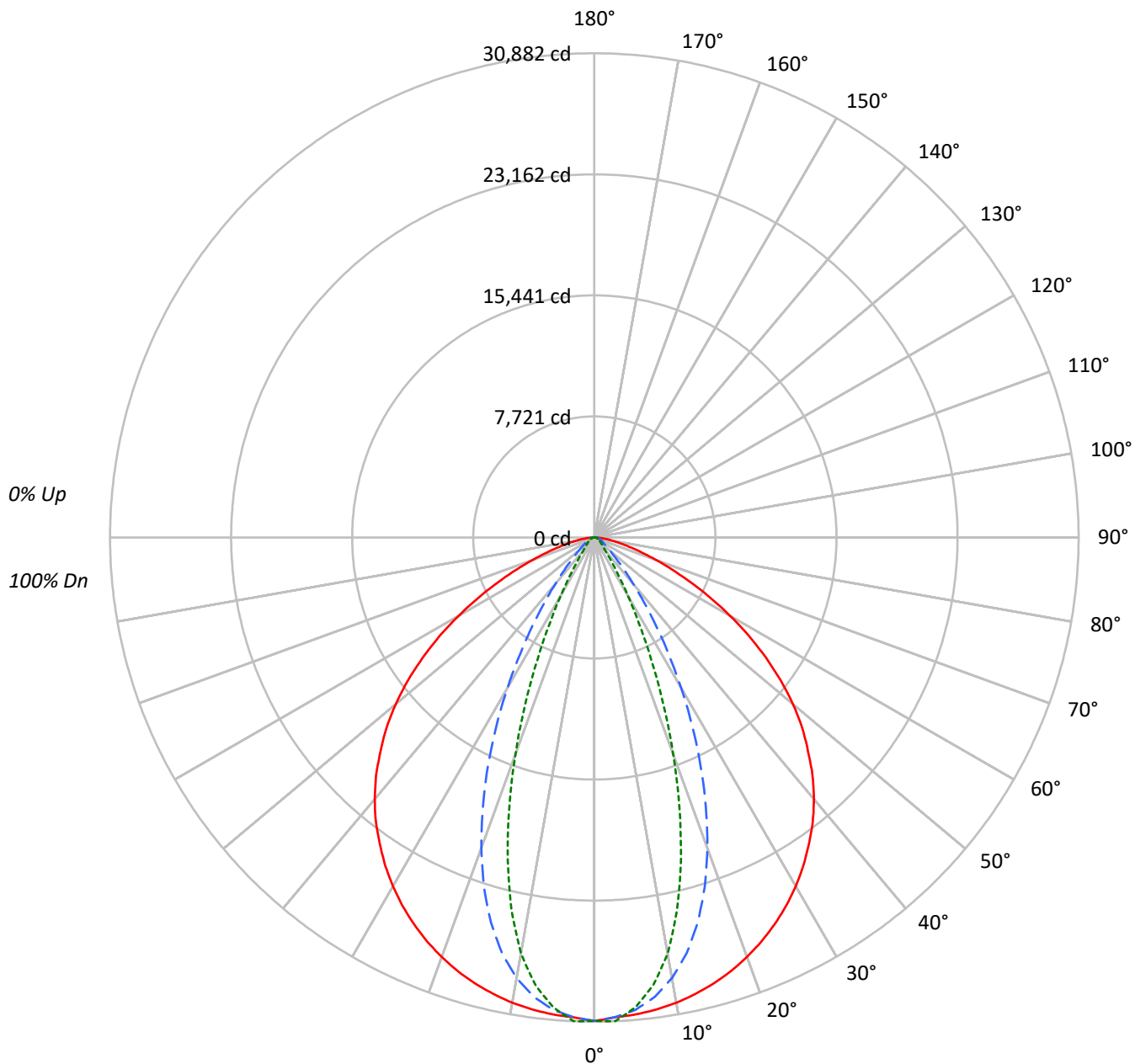
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P730947

CATALOG NUMBER: HBLED-LD5-36HE-N-CLI-UNV-L740

Luminous Intensity Polar Plot





TEST NUMBER: P730947

CATALOG NUMBER: HBLED-LD5-36HE-N-CLI-UNV-L740

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°	49794	49794	49794
5°	49494	49002	48744
10°	49412	46783	44147
15°	49213	42525	35653
20°	48918	36185	25270
25°	48480	28533	15268
30°	47891	20593	7847
35°	47026	13463	3919
40°	45911	8087	2287
45°	44004	4829	1710
50°	41503	3158	1436
55°	37563	2396	1253
60°	32280	2041	1143
65°	25965	1862	1080
70°	19561	1994	1073
75°	14389	1895	1104
80°	10527	1888	1209
85°	7884	2288	1564



TEST NUMBER: P730947

CATALOG NUMBER: HBLED-LD5-36HE-N-CLI-UNV-L740

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2840.2	8.4
10°-20°	7065.8	20.9
20°-30°	7826.4	23.2
30°-40°	6270.4	18.6
40°-50°	4476.2	13.3
50°-60°	2875.1	8.5
60°-70°	1558.1	4.6
70°-80°	666.0	2.0
80°-90°	184.7	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°	17732.4	52.5
0°-40°	24002.8	71.1
0°-60°	31354.2	92.9
0°-90°	33763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30840	30840	30840	30840	30840	
5°	30538	30652	30234	30138	30075	###
15°	29442	28520	25441	22483	21330	8307
25°	27213	23995	16016	10435	8570	12537
35°	23859	17257	6830	2755	1988	14917
45°	19271	9962	2115	900	749	14854
55°	13344	4454	851	523	445	11892
65°	6796	1829	487	336	283	6806
75°	2306	669	304	211	177	2563
85°	426	177	124	102	84	520
90°	0	0	0	0	0	



TEST NUMBER: P730947

CATALOG NUMBER: HBLED-LD5-36HE-N-CLI-UNV-L740

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	30840.0	30840.0	30840.0	30840.0	30840.0
2.5°	30637.0	30828.7	30622.3	30750.6	30882.2
5°	30537.9	30651.7	30234.1	30138.3	30075.0
7.5°	30365.7	30333.2	29548.8	29040.3	28794.9
10°	30138.3	29875.1	28535.0	27417.6	26927.0
12.5°	29813.4	29270.9	27162.5	25200.2	24368.6
15°	29441.5	28520.5	25440.7	22482.8	21329.5
17.5°	28996.4	27643.3	23382.6	19568.7	18046.6
20°	28470.1	26584.3	21059.8	16472.6	14706.9
22.5°	27882.1	25362.7	18572.9	13386.3	11492.4
25°	27212.9	23995.0	16016.2	10434.9	8570.1
27.5°	26490.1	22476.3	13474.1	7796.9	6096.1
30°	25687.6	20832.4	11045.6	5622.0	4208.8
32.5°	24812.0	19084.6	8789.5	3953.7	2878.4
35°	23858.6	17257.2	6830.3	2754.9	1988.2
37.5°	22882.3	15392.4	5158.9	1947.5	1426.2
40°	21782.6	13534.1	3836.8	1426.2	1085.0
42.5°	20601.7	11711.6	2839.4	1098.0	878.8
45°	19271.4	9962.1	2115.0	899.9	748.9
47.5°	17981.7	8331.4	1606.5	766.7	651.3
50°	16523.0	6859.7	1257.2	669.3	571.7
52.5°	14975.0	5565.1	1020.1	589.7	503.5
55°	13344.1	4453.9	851.1	523.0	445.1
57.5°	11692.1	3528.0	727.7	466.1	396.4
60°	9996.3	2821.5	631.9	417.4	354.0
62.5°	8341.1	2256.3	552.2	375.2	316.8
65°	6796.3	1828.9	487.3	336.3	282.6
67.5°	5368.4	1445.7	454.8	302.1	255.1
70°	4143.7	1125.7	422.4	269.6	227.4
72.5°	3139.8	864.2	373.7	240.4	201.5
75°	2306.5	669.3	303.8	211.2	177.0
77.5°	1650.4	515.0	246.9	183.5	152.8
80°	1132.2	383.4	203.0	157.5	130.0
82.5°	735.9	271.3	164.0	130.0	107.1
85°	425.6	177.0	123.5	102.3	84.4
87.5°	183.5	97.4	84.4	76.4	64.9
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)