

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: P#

Luminaire Tested: **HBLED-LD5-36SE-N-CLWG-UNV-L840-ED3-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLWG-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

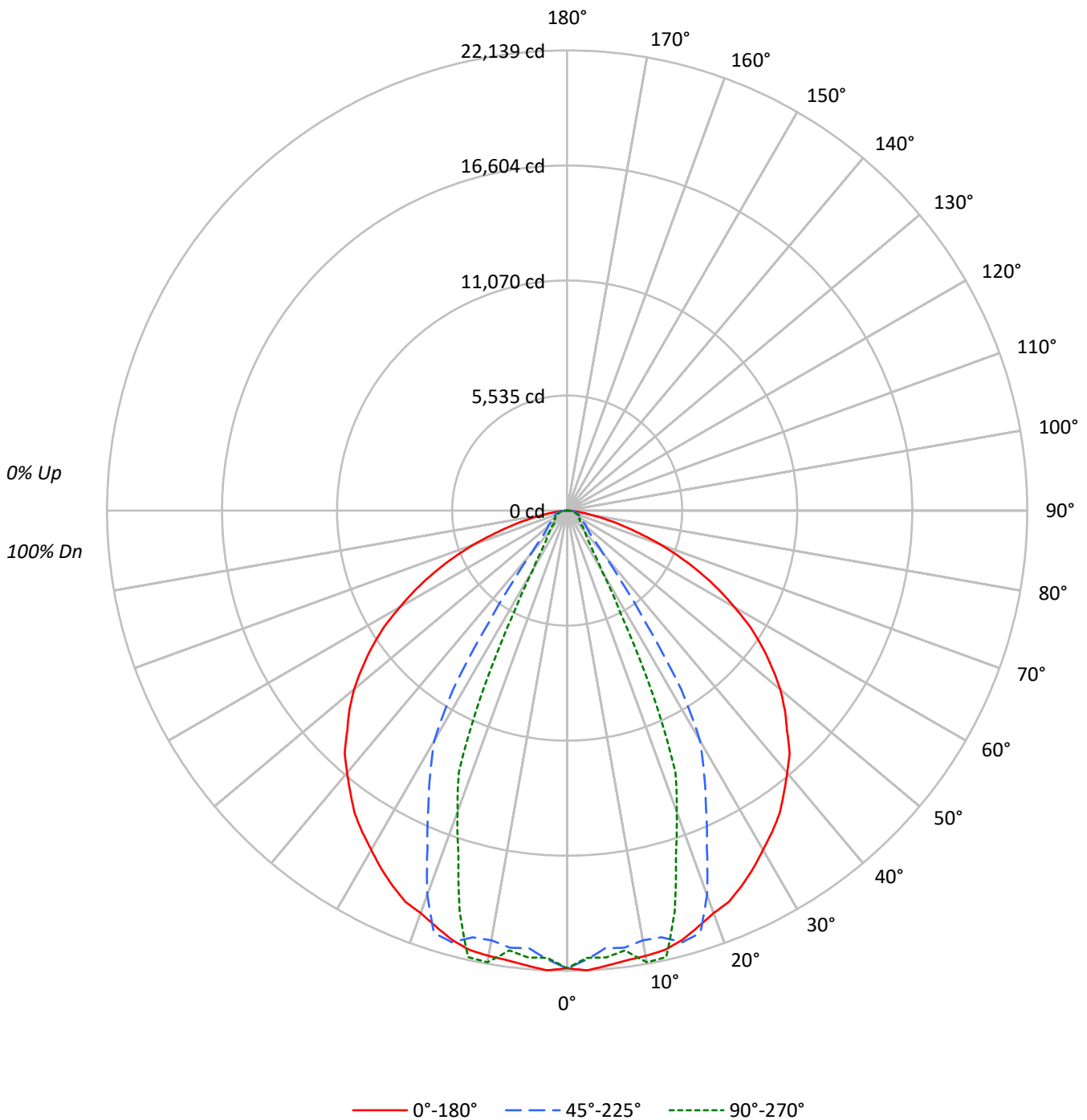
Lumens per Lamp: N/A
Luminaire Lumens: 29601.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29626	29626	29626
5°	29675	28545	29146
10°	29718	28682	30154
15°	29784	29939	27827
20°	29502	28160	22087
25°	29545	23476	14428
30°	29280	19887	5183
35°	29249	10773	2915
40°	28918	4697	2283
45°	28471	2903	1790
50°	28027	2528	1690
55°	26926	2193	1654
60°	24982	1965	1777
65°	22455	2221	1942
70°	18833	2388	2002
75°	14079	2723	2168
80°	8842	3162	2472
85°	5888	3963	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2040.8	6.9
10°-20°	5762.9	19.5
20°-30°	7056.8	23.8
30°-40°	5541.7	18.7
40°-50°	4109.5	13.9
50°-60°	2501.8	8.5
60°-70°	1498.6	5.1
70°-80°	822.2	2.8
80°-90°	266.7	0.9
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°	14860.5	50.2
0°-40°	20402.2	68.9
0°-60°	27013.5	91.3
0°-90°	29601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22019	22019	22019	22019	22019	
5°	21971	21373	21134	21367	21580	###
15°	21382	20796	21493	20625	19977	6020
25°	19901	19963	15813	12403	9718	9161
35°	17807	16199	6559	2195	1775	11111
45°	14963	10744	1526	1156	941	11570
55°	11478	2960	935	791	705	10215
65°	7053	873	698	656	610	6968
75°	2708	550	524	456	417	2932
85°	381	300	257	236	234	465
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22018.7	22018.7	22018.7	22018.7	22018.7
2.5°	22138.9	21840.6	21612.1	21484.5	21536.4
5°	21971.2	21373.2	21134.3	21367.3	21579.5
7.5°	21825.8	20936.9	21207.0	21227.8	21339.1
10°	21751.6	20895.4	20993.3	21454.8	22070.6
12.5°	21653.7	20991.8	21026.0	21655.1	22002.4
15°	21382.1	20795.9	21493.4	20625.3	19976.8
17.5°	20985.9	20338.9	21297.5	18271.8	17390.3
20°	20604.5	19841.8	19666.7	16275.9	15425.6
22.5°	20358.2	19766.1	17568.4	14502.5	13624.1
25°	19901.1	19963.4	15812.9	12402.8	9718.3
27.5°	19398.1	19499.0	14260.7	8271.5	5567.7
30°	18846.0	18961.8	12800.5	4888.1	3335.9
32.5°	18346.0	17693.0	10222.9	3049.5	2319.4
35°	17807.3	16198.7	6559.0	2194.7	1774.8
37.5°	17129.1	14628.7	4152.1	1736.2	1489.9
40°	16464.3	13218.9	2674.1	1482.5	1299.9
42.5°	15842.5	12057.0	1945.4	1295.5	1173.8
45°	14962.6	10743.7	1525.5	1156.0	940.8
47.5°	14201.3	9203.4	1334.1	977.9	811.7
50°	13389.6	7036.8	1207.9	869.6	807.3
52.5°	12426.5	4603.2	1115.9	832.5	753.8
55°	11478.3	2960.5	934.9	790.9	704.9
57.5°	10454.4	1877.2	825.1	767.2	736.0
60°	9283.5	1265.8	730.1	727.1	660.4
62.5°	8200.3	1040.2	704.9	697.5	624.7
65°	7053.2	872.6	697.5	655.9	609.9
67.5°	5907.6	747.9	630.7	599.5	559.4
70°	4787.2	684.1	606.9	593.6	509.0
72.5°	3635.7	563.9	538.7	503.1	422.9
75°	2708.2	550.5	523.8	455.6	417.0
77.5°	1832.7	507.5	476.3	408.1	376.9
80°	1141.2	466.0	408.1	357.6	319.0
82.5°	678.2	388.8	335.4	295.3	270.1
85°	381.4	299.8	256.7	235.9	234.5
87.5°	81.6	108.3	86.1	81.6	57.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)