

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-W-CLWG-UNV-L835-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-CLWG-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

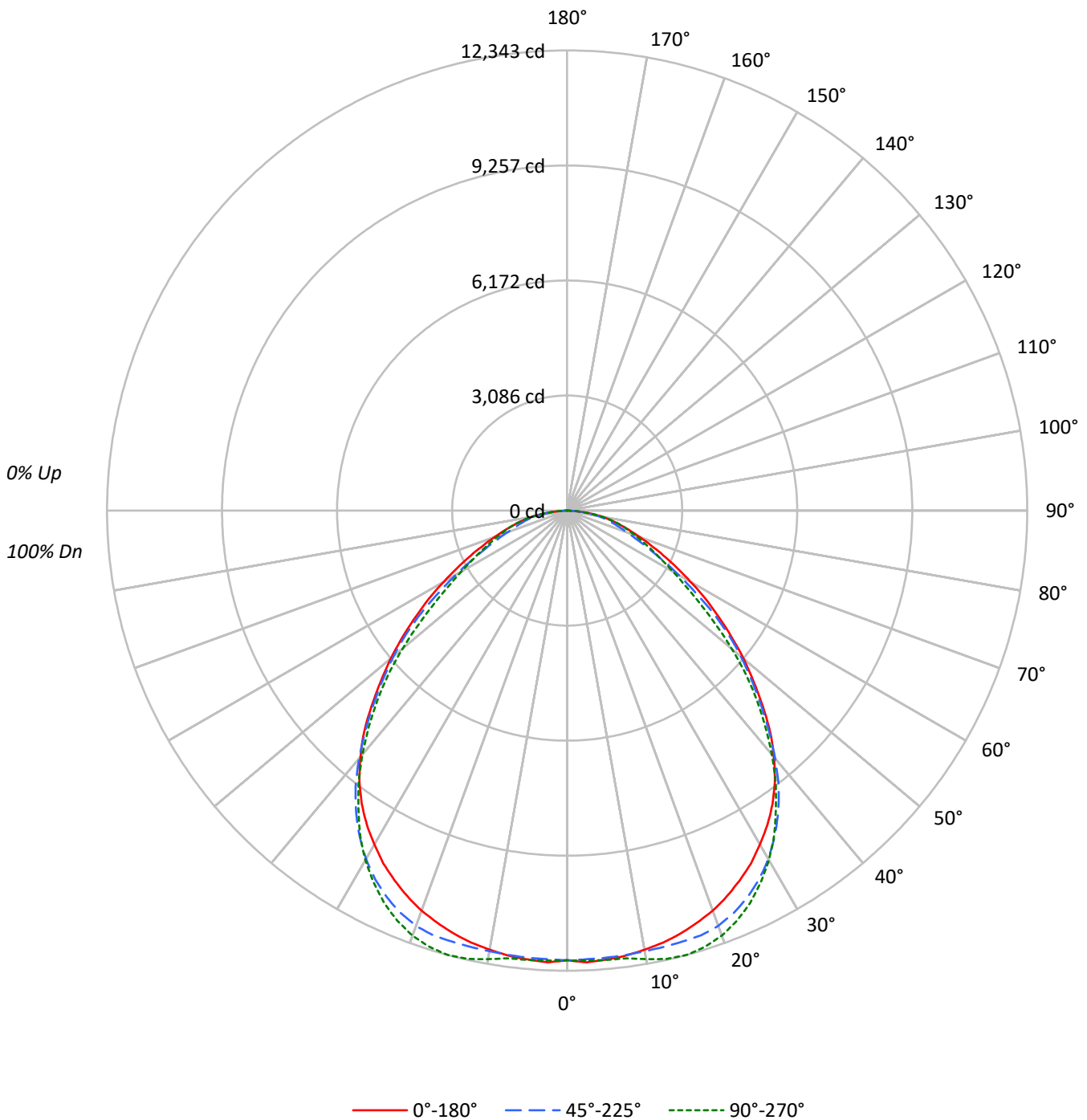
Lumens per Lamp: N/A
Luminaire Lumens: 30085.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16231	16231	16231
5°	16327	16259	16339
10°	16341	16396	16690
15°	16361	16669	17194
20°	16350	16974	17371
25°	16251	16990	17239
30°	16064	16765	16818
35°	15777	16221	16027
40°	15154	15247	15007
45°	14121	13973	13688
50°	12928	12720	12069
55°	11613	11182	10204
60°	10299	9252	8808
65°	9074	7687	7994
70°	8115	6671	7613
75°	7602	6486	7700
80°	7401	6557	7329
85°	5908	5187	5380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1149.1	3.8
10°-20°	3384.9	11.3
20°-30°	5207.2	17.3
30°-40°	6077.1	20.2
40°-50°	5647.3	18.8
50°-60°	4186.0	13.9
60°-70°	2559.0	8.5
70°-80°	1457.6	4.8
80°-90°	416.9	1.4
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°	9741.3	32.4
0°-40°	15818.4	52.6
0°-60°	25651.6	85.3
0°-90°	30085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12063	12063	12063	12063	12063	
5°	12088	12032	12038	12029	12097	###
15°	11746	11740	11967	12203	12343	3315
25°	10946	11030	11444	11540	11612	5042
35°	9605	9680	9876	9795	9758	5985
45°	7421	7464	7343	7228	7194	5718
55°	4950	4826	4767	4428	4350	4443
65°	2850	2589	2414	2480	2511	2852
75°	1462	1372	1248	1422	1481	1565
85°	383	373	336	348	348	441
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12063.2	12063.2	12063.2	12063.2	<i>12063.2</i>
2.5°	12128.6	12060.1	12047.7	12019.7	<i>12081.9</i>
5°	12088.1	12032.1	12038.3	12029.0	<i>12097.4</i>
7.5°	12041.4	12001.0	12025.9	12022.8	<i>12113.0</i>
10°	11960.5	11938.8	12001.0	12069.4	<i>12215.7</i>
12.5°	11870.3	11848.5	11985.4	12159.7	<i>12318.4</i>
15°	<i>11745.8</i>	<i>11739.6</i>	<i>11966.8</i>	<i>12203.2</i>	<i>12343.3</i>
17.5°	11590.3	11599.6	11945.0	12147.2	<i>12271.7</i>
20°	11419.1	11434.7	11854.7	12019.7	<i>12131.7</i>
22.5°	11198.2	11251.1	11680.5	11817.4	<i>11904.5</i>
25°	10946.2	11030.2	11444.0	11540.5	<i>11612.1</i>
27.5°	10675.5	10759.5	11151.6	11201.3	<i>11241.8</i>
30°	10339.5	10457.7	10790.6	10796.8	<i>10824.8</i>
32.5°	9997.2	10103.0	10358.1	10330.1	<i>10336.3</i>
35°	9605.1	9679.8	9875.8	9794.9	<i>9757.6</i>
37.5°	9154.0	9194.4	9318.9	9197.5	<i>9191.3</i>
40°	8628.1	8681.0	8681.0	8513.0	<i>8544.1</i>
42.5°	8068.1	8086.7	8009.0	7850.3	<i>7875.2</i>
45°	7420.9	7464.4	7343.1	7228.0	<i>7193.7</i>
47.5°	6779.9	6823.5	6695.9	6562.1	<i>6503.0</i>
50°	6176.3	6154.5	6076.7	5849.6	<i>5765.6</i>
52.5°	5550.9	5482.4	5451.3	5118.4	<i>5021.9</i>
55°	4950.4	4825.9	4766.8	4427.6	<i>4349.9</i>
57.5°	4393.4	4169.4	4057.4	3792.9	<i>3761.8</i>
60°	3827.1	3575.1	3438.2	3267.1	<i>3273.3</i>
62.5°	3313.7	3049.3	2884.3	2834.6	<i>2856.3</i>
65°	2850.1	2588.8	2414.5	2479.9	<i>2511.0</i>
67.5°	2430.1	2215.4	2019.4	2171.8	<i>2202.9</i>
70°	2062.9	1891.8	1695.8	1919.8	<i>1935.3</i>
72.5°	1758.0	1618.0	1453.1	1664.6	<i>1698.9</i>
75°	1462.4	1372.2	1247.7	1421.9	<i>1481.1</i>
77.5°	1204.1	1132.6	1061.0	1166.8	<i>1232.1</i>
80°	955.2	883.7	846.3	902.3	<i>945.9</i>
82.5°	675.2	628.5	591.2	631.6	<i>653.4</i>
85°	382.7	373.4	336.0	348.5	<i>348.5</i>
87.5°	87.1	99.6	112.0	102.7	<i>87.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)