

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-CL-UNV-L735-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 (P23762)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36SE-W-CL-UNV-L735-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

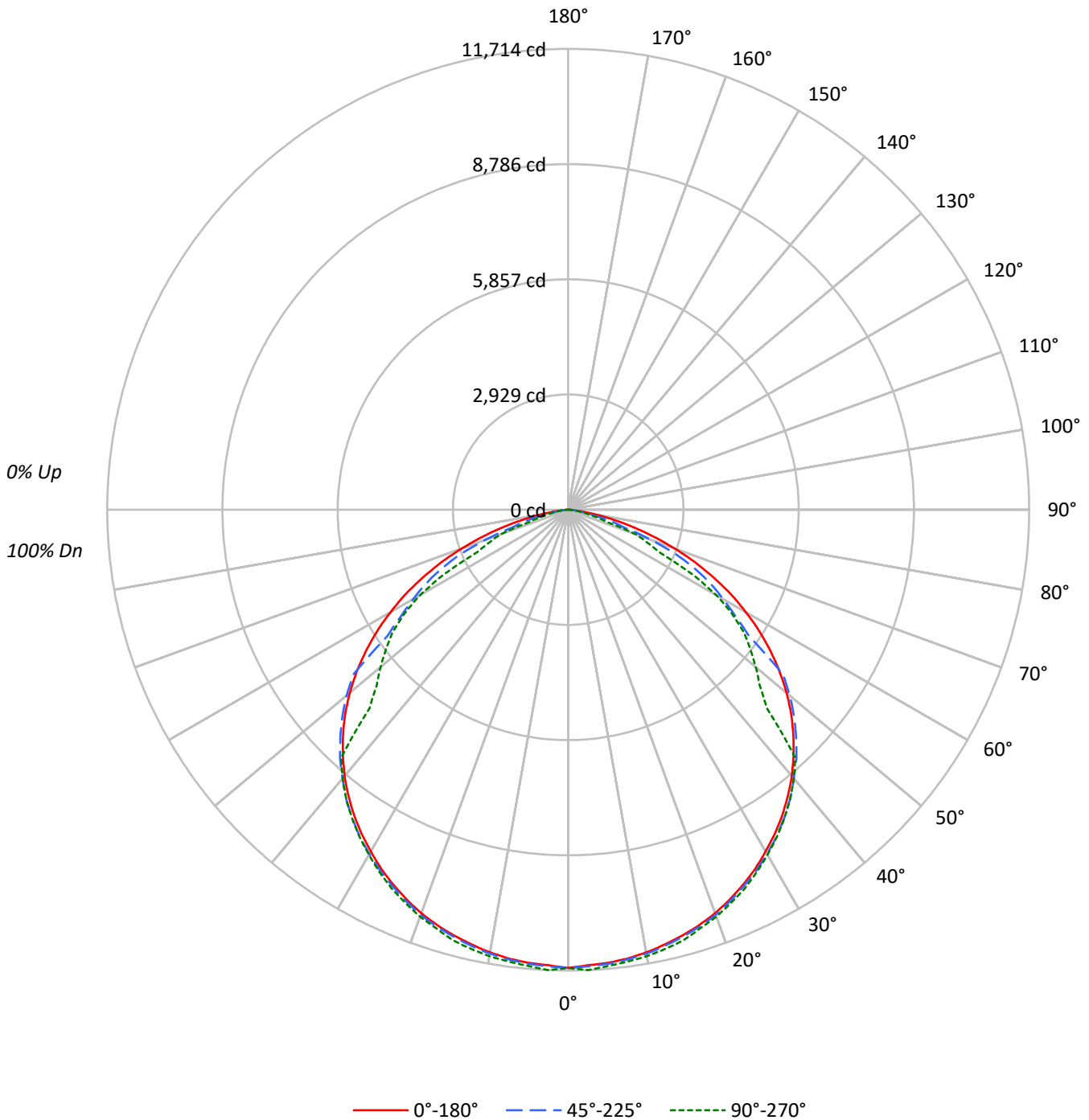
Lumens per Lamp: N/A  
Luminaire Lumens: 31485.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 232  
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	0
RW	70	50	30	10	70	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
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15670	15670	15670
5°	15613	15647	15724
10°	15611	15656	15747
15°	15610	15658	15784
20°	15630	15689	15762
25°	15612	15671	15766
30°	15582	15697	15732
35°	15575	15717	15729
40°	15527	15664	15664
45°	15393	15579	13575
50°	15156	15384	13025
55°	14726	13169	12793
60°	14035	12241	11688
65°	12979	11363	8095
70°	11302	8842	7213
75°	8927	5934	3878
80°	5746	2834	2417
85°	2364	1729	1905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1104.7	3.5
10°-20°	3184.3	10.1
20°-30°	4881.9	15.5
30°-40°	5983.6	19.0
40°-50°	6151.6	19.5
50°-60°	5250.1	16.7
60°-70°	3470.9	11.0
70°-80°	1285.9	4.1
80°-90°	172.0	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°	9170.9	29.1
0°-40°	15154.5	48.1
0°-60°	26556.2	84.3
0°-90°	31485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31485.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11646	11646	11646	11646	11646	
5°	11560	11640	11585	11631	11642	###
15°	11207	11275	11241	11326	11331	3165
25°	10516	10571	10556	10651	10620	4849
35°	9482	9548	9569	9628	9576	5931
45°	8090	8171	8188	8175	7134	6234
55°	6278	6392	5614	5451	5454	5601
65°	4077	4111	3569	2935	2542	4020
75°	1717	1504	1142	767	746	1842
85°	153	109	112	122	123	253
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11646.2	11646.2	11646.2	11646.2	11646.2
2.5°	11589.5	11661.8	11619.2	11673.1	11714.2
5°	11559.7	11640.5	11585.2	11630.6	11641.9
7.5°	11508.6	11583.8	11532.7	11592.3	11583.8
10°	11426.4	11494.5	11459.0	11521.4	11525.7
12.5°	11321.5	11389.5	11356.9	11433.5	11432.1
15°	11206.6	11274.7	11240.6	11325.7	11331.4
17.5°	11071.9	11134.3	11108.8	11186.7	11155.5
20°	10915.9	10969.8	10957.0	11030.8	11008.1
22.5°	10724.5	10779.8	10767.0	10852.1	10818.1
25°	10516.0	10571.3	10555.7	10650.7	10619.5
27.5°	10290.6	10343.0	10341.6	10430.9	10382.7
30°	10029.6	10099.1	10103.4	10182.8	10126.1
32.5°	9771.6	9836.8	9855.2	9913.4	9865.2
35°	9482.3	9547.5	9568.8	9628.3	9575.9
37.5°	9170.3	9225.6	9263.9	9307.9	9266.7
40°	8839.9	8889.6	8917.9	8971.8	8917.9
42.5°	8471.2	8542.1	8581.8	8620.1	8532.2
45°	8089.8	8170.6	8187.6	8174.9	7134.0
47.5°	7685.7	7773.6	7783.5	6788.1	6596.6
50°	7240.4	7351.0	7349.6	6273.3	6222.3
52.5°	6776.7	6883.1	6878.8	5870.6	5836.6
55°	6277.6	6392.4	5613.9	5450.9	5453.7
57.5°	5768.5	5850.7	5036.8	5043.9	4950.3
60°	5215.5	5293.5	4549.0	4505.0	4343.4
62.5°	4661.0	4693.6	4076.8	3862.7	3555.0
65°	4076.8	4110.8	3569.2	2935.3	2542.5
67.5°	3477.0	3511.0	2962.2	2183.7	2154.0
70°	2872.9	2595.0	2247.6	1819.3	1833.5
72.5°	2277.3	1993.7	1469.1	1409.5	1018.1
75°	1717.2	1504.5	1141.5	767.1	745.9
77.5°	1195.4	1036.6	611.2	523.2	489.2
80°	741.6	520.4	365.8	324.7	312.0
82.5°	375.8	299.2	198.5	198.5	198.5
85°	153.1	109.2	112.0	121.9	123.4
87.5°	32.6	44.0	53.9	55.3	53.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)