

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-LD5-36HE-W-WG-UNV-L850-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36HE-W-WG-UNV-L850-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

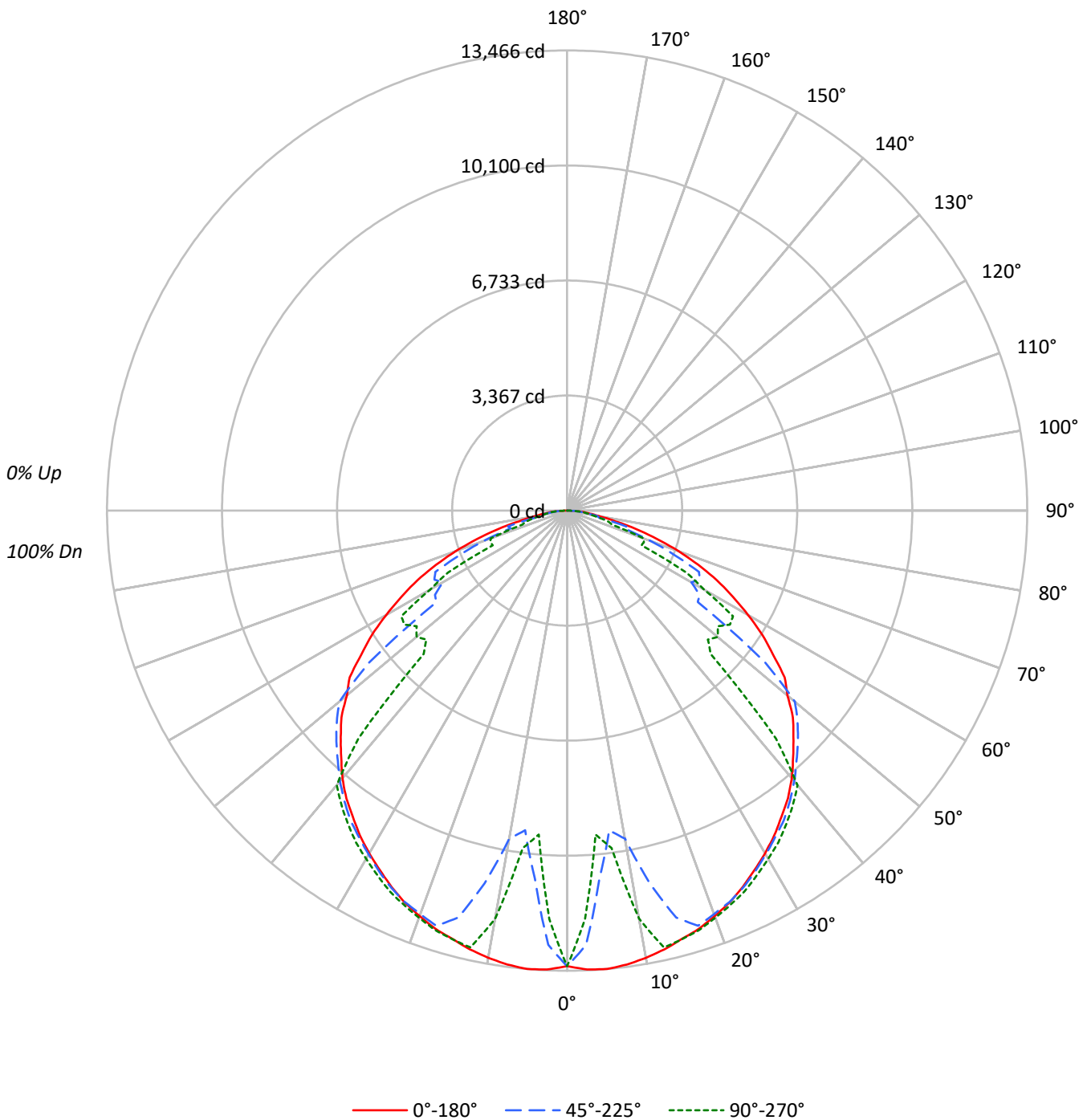
Lumens per Lamp: N/A  
Luminaire Lumens: 35319.0 lumens  
Efficiency: N/A  
Efficacy: 167.2 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 211.3  
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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

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

	0°	45°	90°
0°	17938	17938	17938
5°	18187	14611	12850
10°	18156	13325	16572
15°	18075	17174	18091
20°	18076	17993	18153
25°	18043	18083	18249
30°	17991	18050	18283
35°	17962	18161	18374
40°	17965	18161	18421
45°	17824	18173	11293
50°	17622	18209	12036
55°	17250	10949	13642
60°	16456	11287	12492
65°	15419	13551	7643
70°	13615	10266	9369
75°	10848	9331	6497
80°	7473	6744	5583
85°	7162	6226	5906



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1066.1	3.0
10°-20°	3339.9	9.5
20°-30°	5494.8	15.6
30°-40°	6909.0	19.6
40°-50°	6776.0	19.2
50°-60°	5614.2	15.9
60°-70°	3959.8	11.2
70°-80°	1727.6	4.9
80°-90°	431.6	1.2
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°	9900.7	28.0
0°-40°	16809.7	47.6
0°-60°	29199.9	82.7
0°-90°	35319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35319.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13332	13332	13332	13332	13332	
5°	13466	12533	10818	9809	9514	###
15°	12976	9012	12329	13027	12987	3669
25°	12154	11121	12181	12262	12292	5602
35°	10936	10929	11057	11130	11186	6852
45°	9367	9396	9550	8458	5935	7231
55°	7354	7594	4668	5307	5815	6580
65°	4843	5128	4256	3274	2401	4762
75°	2087	2045	1795	1173	1250	2238
85°	464	413	403	386	383	481
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13331.8	13331.8	13331.8	13331.8	13331.8
2.5°	13441.8	13162.8	12719.6	12161.7	11964.0
5°	13465.7	12533.1	10817.8	9808.7	9513.8
7.5°	13397.1	11390.1	9430.9	9642.9	9955.4
10°	13288.7	10385.8	9752.9	11474.6	12129.8
12.5°	13150.0	9493.1	11173.3	12961.9	13092.7
15°	12976.3	9011.7	12329.1	13027.3	12987.4
17.5°	12829.6	9293.8	12743.5	12896.6	12867.9
20°	12624.0	9856.6	12566.6	12689.3	12678.2
22.5°	12416.7	10522.9	12399.2	12486.9	12486.9
25°	12153.7	11120.7	12180.8	12262.1	12292.4
27.5°	11865.2	11465.0	11908.2	11975.2	12029.4
30°	11579.8	11514.5	11618.1	11704.2	11767.9
32.5°	11278.5	11253.0	11334.3	11425.2	11506.5
35°	10935.8	10929.4	11056.9	11130.3	11186.1
37.5°	10613.8	10591.5	10709.4	10811.4	10854.5
40°	10228.0	10228.0	10339.6	10443.2	10487.8
42.5°	9788.0	9850.2	9936.3	10043.1	9045.1
45°	9367.2	9395.8	9550.5	8458.5	5935.0
47.5°	8962.2	8998.9	9145.6	5437.6	5585.9
50°	8418.6	8584.4	8699.2	5421.7	5750.1
52.5°	8021.7	8093.4	7302.7	5367.5	5552.4
55°	7353.8	7594.5	4667.6	5306.9	5815.4
57.5°	6783.1	6958.4	4589.5	5437.6	5753.2
60°	6115.1	6382.9	4194.2	5246.3	4642.1
62.5°	5474.3	5729.3	4379.1	4128.8	3931.1
65°	4843.0	5128.3	4256.3	3274.4	2400.8
67.5°	4151.1	3884.9	3395.5	2306.7	2427.9
70°	3460.9	2713.2	2609.6	2579.3	2381.6
72.5°	2751.5	1979.9	1732.8	1935.3	1385.3
75°	2086.7	2045.3	1795.0	1173.3	1249.8
77.5°	1447.5	1476.2	961.3	1144.6	950.1
80°	964.5	835.3	870.4	730.1	720.6
82.5°	667.9	682.3	572.3	554.8	562.7
85°	463.9	412.9	403.3	385.8	382.6
87.5°	154.6	180.1	167.4	151.4	161.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)