

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-UNV-L750-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 (P23767)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36SE-N-UNV-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

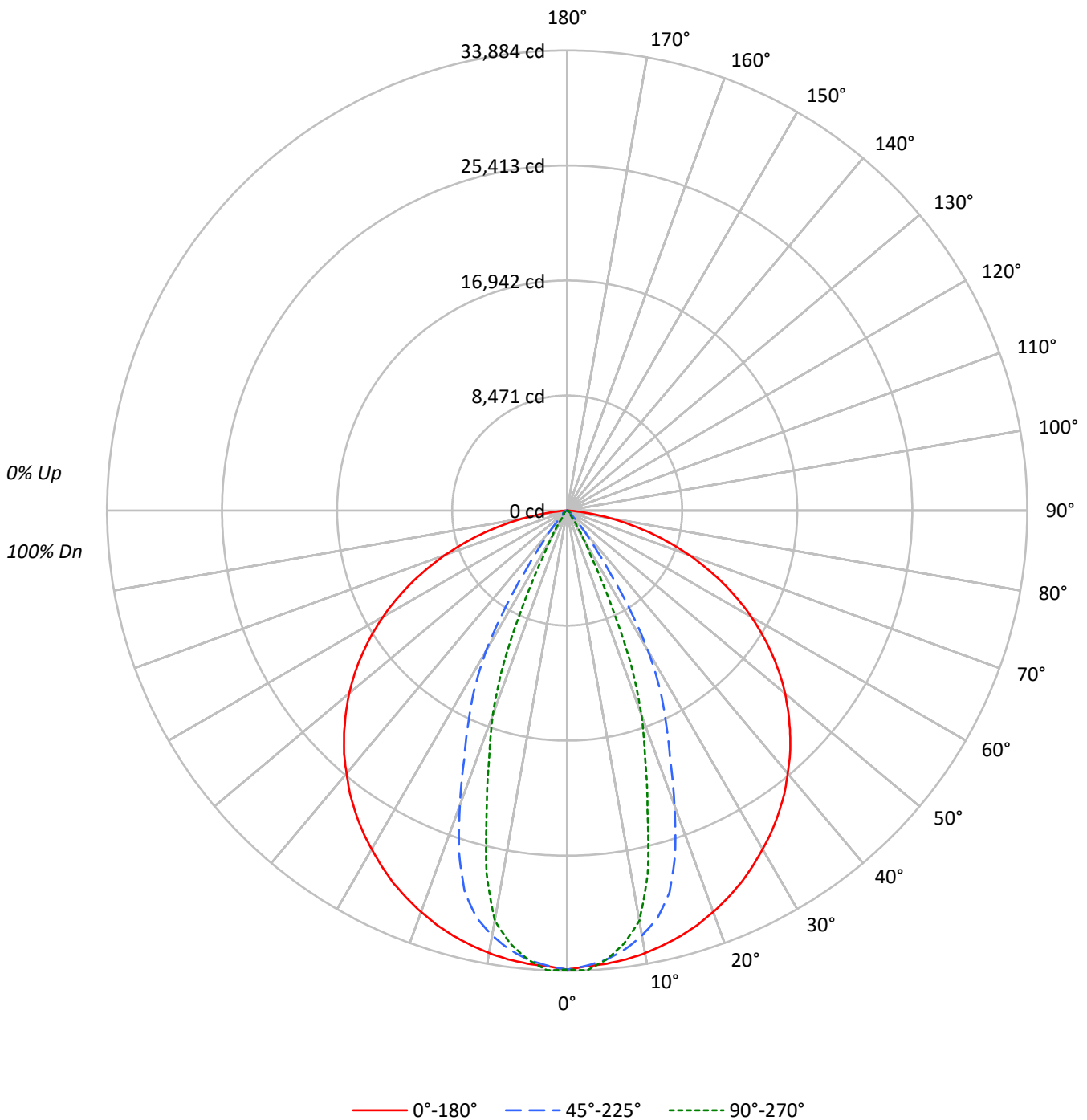
Lumens per Lamp: N/A  
Luminaire Lumens: 35927.0 lumens  
Efficiency: N/A  
Efficacy: 154.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

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

	0°	45°	90°
0°	45480	45480	45480
5°	45237	44837	44818
10°	45208	43400	41878
15°	45144	40546	31871
20°	45040	33053	22941
25°	44925	25557	11301
30°	44726	18575	3665
35°	44620	8241	943
40°	44387	3347	635
45°	44188	939	676
50°	43844	666	751
55°	43212	792	321
60°	42146	883	195
65°	40412	563	230
70°	37544	500	285
75°	32844	376	393
80°	24558	461	561
85°	12163	596	744



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3136.8	8.7
10°-20°	7843.7	21.8
20°-30°	8495.9	23.6
30°-40°	6291.6	17.5
40°-50°	4531.6	12.6
50°-60°	2805.9	7.8
60°-70°	1725.6	4.8
70°-80°	909.7	2.5
80°-90°	186.2	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°	19476.5	54.2
0°-40°	25768.1	71.7
0°-60°	33105.5	92.1
0°-90°	35927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35927.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	33802	33802	33802	33802	33802	
5°	33493	33617	33197	33221	33183	###
15°	32409	31657	29108	24754	22880	9149
25°	30261	27719	17215	10830	7612	13943
35°	27166	19151	5017	1180	574	16995
45°	23223	10790	494	357	355	17909
55°	18421	2222	338	306	137	16445
65°	12694	235	177	113	72	12524
75°	6318	55	72	95	76	6673
85°	788	21	39	58	48	###
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	33801.8	33801.8	33801.8	33801.8	33801.8
2.5°	33584.7	33798.5	33546.1	33734.2	33883.8
5°	33493.0	33616.8	33197.1	33221.3	33182.7
7.5°	33332.2	33303.3	32597.4	32288.6	32153.6
10°	33089.4	32898.1	31766.0	31121.2	30651.7
12.5°	32775.9	32348.1	30728.9	28678.7	27405.1
15°	32409.2	31656.7	29108.0	24753.5	22880.2
17.5°	31971.9	30905.7	26458.0	20746.4	19074.1
20°	31455.7	30068.0	23084.4	17651.0	16022.1
22.5°	30880.0	29048.5	19807.3	14669.8	12346.2
25°	30260.9	27718.7	17215.2	10829.9	7612.3
27.5°	29545.4	26009.4	14783.9	6378.9	3884.9
30°	28788.0	23951.1	11955.5	3431.5	2358.9
32.5°	28024.2	21617.9	8459.7	2143.5	1337.9
35°	27165.5	19151.3	5017.0	1180.3	574.1
37.5°	26269.9	16890.4	2965.2	537.1	368.2
40°	25271.3	14824.1	1905.5	357.0	361.8
42.5°	24306.5	12897.8	1072.5	352.2	358.6
45°	23222.7	10789.7	493.7	357.0	355.4
47.5°	22102.0	8604.4	320.0	360.2	360.2
50°	20945.8	6152.2	318.4	368.2	358.6
52.5°	19725.3	3838.3	331.2	366.6	294.3
55°	18421.2	2222.3	337.7	305.5	136.7
57.5°	17070.5	1310.5	340.9	175.3	77.2
60°	15661.9	725.2	328.0	130.2	72.4
62.5°	14209.9	345.7	258.9	122.2	70.8
65°	12693.5	234.8	176.9	112.6	72.4
67.5°	11119.3	181.7	139.9	106.1	74.0
70°	9543.5	135.1	127.0	106.1	72.4
72.5°	7941.9	91.7	106.1	107.7	72.4
75°	6317.8	54.7	72.4	94.9	75.6
77.5°	4708.2	33.8	56.3	98.1	91.7
80°	3169.4	28.9	59.5	91.7	72.4
82.5°	1860.5	25.7	57.9	70.8	57.9
85°	787.9	20.9	38.6	57.9	48.2
87.5°	147.9	17.7	30.6	46.6	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)