

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-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-LD5-36HE-N-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

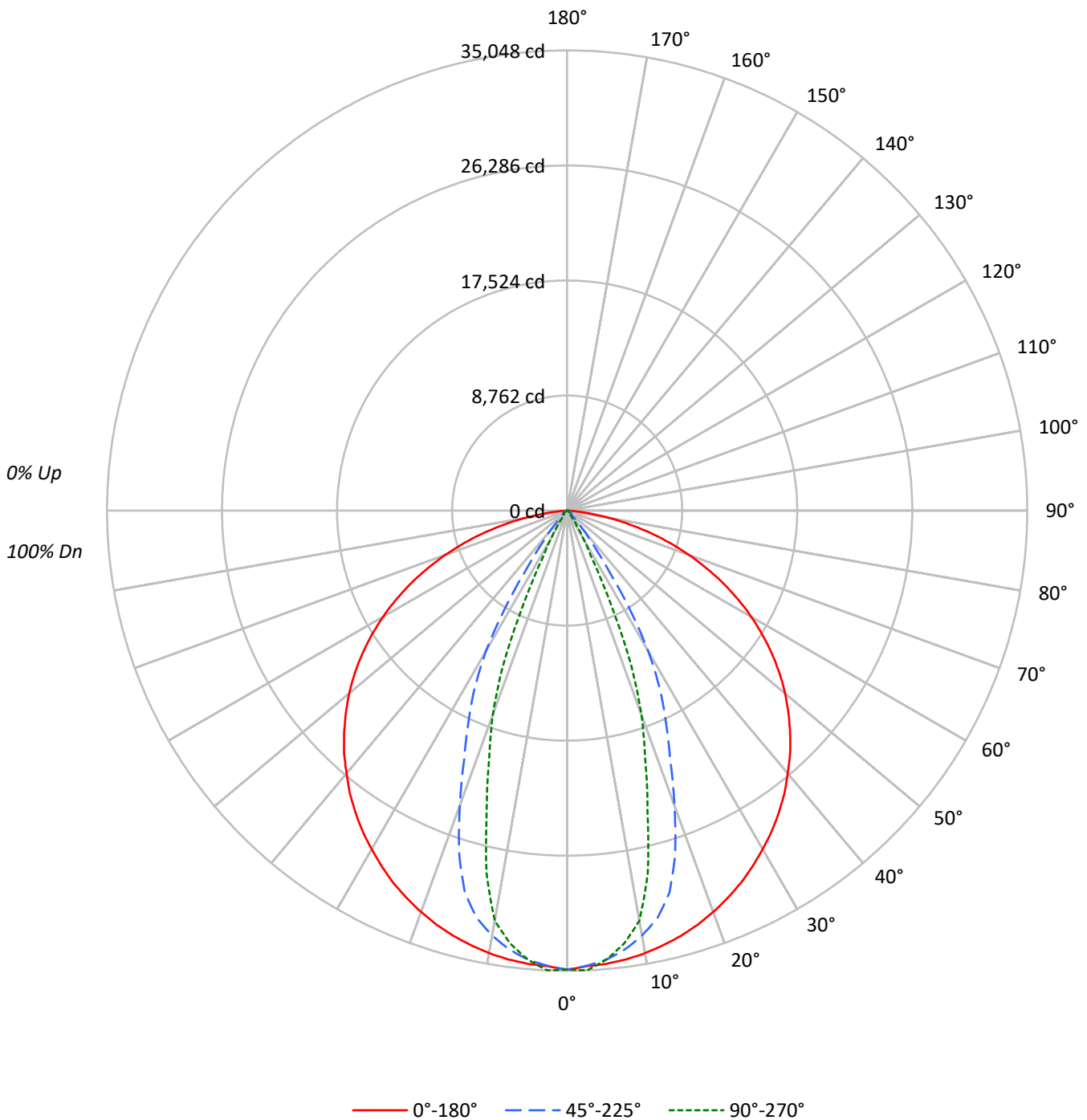
Lumens per Lamp: N/A
Luminaire Lumens: 37161.0 lumens
Efficiency: N/A
Efficacy: 175.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47042	47042	47042
5°	46790	46377	46357
10°	46761	44891	43316
15°	46695	41939	32966
20°	46586	34188	23729
25°	46468	26435	11689
30°	46262	19212	3791
35°	46153	8524	975
40°	45911	3462	657
45°	45706	972	699
50°	45350	689	776
55°	44697	819	332
60°	43594	913	201
65°	41800	583	238
70°	38833	517	294
75°	33972	389	407
80°	25401	477	580
85°	12582	616	770



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3244.6	8.7
10°-20°	8113.1	21.8
20°-30°	8787.7	23.6
30°-40°	6507.7	17.5
40°-50°	4687.2	12.6
50°-60°	2902.3	7.8
60°-70°	1784.9	4.8
70°-80°	940.9	2.5
80°-90°	192.6	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°	20145.4	54.2
0°-40°	26653.1	71.7
0°-60°	34242.6	92.1
0°-90°	37161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	37161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34963	34963	34963	34963	34963	
5°	34643	34772	34337	34362	34322	###
15°	33522	32744	30108	25604	23666	9463
25°	31300	28671	17806	11202	7874	14422
35°	28099	19809	5189	1221	594	17579
45°	24020	11160	511	369	368	18525
55°	19054	2299	349	316	141	17010
65°	13130	243	183	116	75	12954
75°	6535	56	75	98	78	6902
85°	815	22	40	60	50	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	34962.8	34962.8	34962.8	34962.8	34962.8
2.5°	34738.2	34959.4	34698.3	34892.9	35047.6
5°	34643.4	34771.5	34337.4	34362.3	34322.4
7.5°	34477.1	34447.2	33717.0	33397.7	33257.9
10°	34225.9	34028.0	32857.1	32190.2	31704.5
12.5°	33901.6	33459.2	31784.3	29663.7	28346.4
15°	33522.4	32744.0	30107.8	25603.8	23666.1
17.5°	33070.0	31967.3	27366.8	21459.0	19729.2
20°	32536.1	31100.7	23877.3	18257.3	16572.4
22.5°	31940.7	30046.2	20487.7	15173.6	12770.3
25°	31300.3	28670.8	17806.5	11201.9	7873.7
27.5°	30560.2	26902.7	15291.7	6598.0	4018.4
30°	29776.8	24773.8	12366.1	3549.3	2440.0
32.5°	28986.8	22360.5	8750.3	2217.1	1383.8
35°	28098.6	19809.1	5189.3	1220.8	593.8
37.5°	27172.2	17470.6	3067.0	555.5	380.9
40°	26139.3	15333.3	1970.9	369.2	374.2
42.5°	25141.4	13340.8	1109.4	364.2	370.9
45°	24020.4	11160.3	510.6	369.2	367.6
47.5°	22861.1	8899.9	331.0	372.6	372.6
50°	21665.2	6363.5	329.3	380.9	370.9
52.5°	20402.8	3970.1	342.6	379.2	304.4
55°	19054.0	2298.6	349.3	316.0	141.4
57.5°	17656.8	1355.5	352.6	181.3	79.8
60°	16199.9	750.1	339.3	134.7	74.8
62.5°	14698.0	357.6	267.8	126.4	73.2
65°	13129.5	242.8	183.0	116.4	74.8
67.5°	11501.2	187.9	144.7	109.8	76.5
70°	9871.3	139.7	131.4	109.8	74.8
72.5°	8214.7	94.8	109.8	111.4	74.8
75°	6534.8	56.5	74.8	98.1	78.2
77.5°	4869.9	34.9	58.2	101.5	94.8
80°	3278.2	29.9	61.5	94.8	74.8
82.5°	1924.4	26.6	59.9	73.2	59.9
85°	815.0	21.6	39.9	59.9	49.9
87.5°	153.0	18.3	31.6	48.2	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)