

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-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

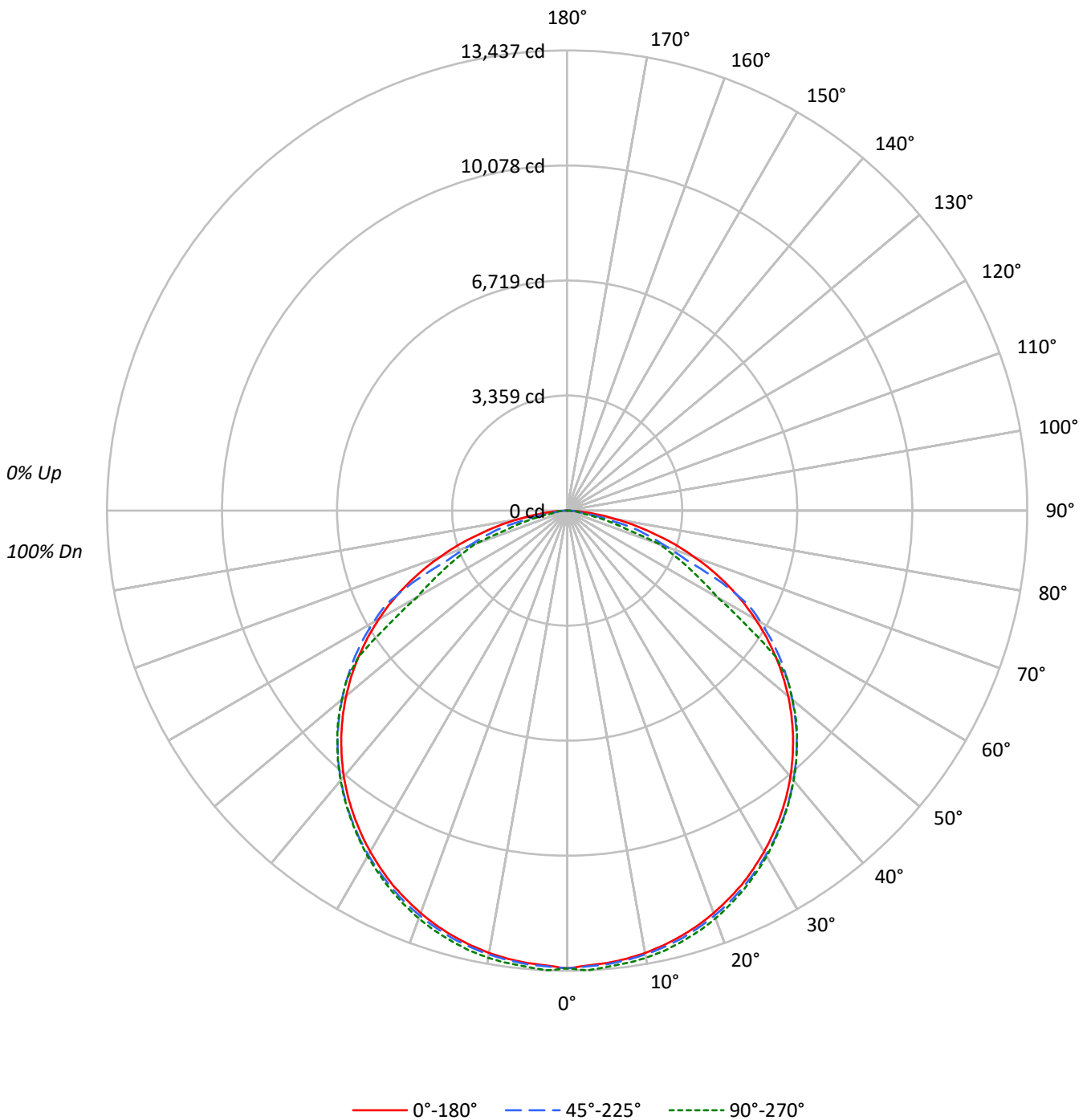
Lumens per Lamp: N/A
Luminaire Lumens: 38589.0 lumens
Efficiency: N/A
Efficacy: 182.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17985	17985	17985
5°	17911	17961	18062
10°	17921	17984	18120
15°	17916	18012	18137
20°	17907	18022	18148
25°	17901	18029	18129
30°	17869	18043	18111
35°	17847	18052	18076
40°	17814	18051	18079
45°	17747	18043	18064
50°	17641	17967	17963
55°	17435	17871	17428
60°	17112	17608	13636
65°	16541	15847	12286
70°	15496	12192	11323
75°	13721	10631	7057
80°	11299	6258	3154
85°	7447	3835	4131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1268.4	3.3
10°-20°	3659.6	9.5
20°-30°	5610.6	14.5
30°-40°	6880.8	17.8
40°-50°	7306.3	18.9
50°-60°	6673.4	17.3
60°-70°	4647.4	12.0
70°-80°	2167.6	5.6
80°-90°	375.0	1.0
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°	10538.6	27.3
0°-40°	17419.4	45.1
0°-60°	31399.1	81.4
0°-90°	38589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	38589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13367	13367	13367	13367	13367	
5°	13261	13354	13298	13362	13373	###
15°	12862	12952	12931	13010	13021	3632
25°	12058	12163	12144	12234	12211	5557
35°	10865	10990	10990	11064	11005	6799
45°	9327	9468	9482	9543	9494	7193
55°	7433	7582	7618	7631	7429	6638
65°	5196	5356	4978	3958	3859	5126
75°	2639	2806	2045	1417	1357	2822
85°	482	317	248	266	268	623
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13366.9	13366.9	13366.9	13366.9	13366.9
2.5°	13296.4	13381.3	13325.2	13386.1	13437.4
5°	13261.1	13354.1	13298.0	13362.1	13373.3
7.5°	13203.4	13291.6	13240.3	13310.8	13328.4
10°	13116.9	13203.4	13163.4	13246.7	13262.7
12.5°	12999.9	13088.0	13057.6	13148.9	13160.1
15°	12862.1	12951.8	12931.0	13009.5	13020.7
17.5°	12700.2	12793.2	12769.1	12852.5	12860.5
20°	12506.3	12607.3	12586.4	12684.2	12674.6
22.5°	12288.4	12395.7	12379.7	12477.5	12448.6
25°	12057.6	12163.4	12144.1	12233.9	12211.4
27.5°	11786.8	11903.7	11886.1	11972.7	11937.4
30°	11501.5	11620.1	11613.7	11692.2	11657.0
32.5°	11193.8	11320.4	11314.0	11390.9	11336.4
35°	10865.3	10990.3	10990.3	11064.0	11004.7
37.5°	10517.5	10644.1	10645.7	10716.3	10660.2
40°	10142.5	10269.1	10277.2	10344.5	10293.2
42.5°	9748.3	9886.1	9892.5	9953.4	9905.4
45°	9326.8	9467.9	9482.3	9543.2	9493.5
47.5°	8886.1	9028.8	9041.6	9107.3	9072.0
50°	8427.8	8565.6	8583.3	8637.8	8581.7
52.5°	7943.8	8084.9	8108.9	8142.6	8116.9
55°	7432.6	7581.7	7618.5	7631.3	7429.4
57.5°	6903.8	7056.0	7091.3	6796.4	6147.4
60°	6358.9	6509.6	6543.2	5528.8	5067.3
62.5°	5791.6	5939.1	5975.9	4581.7	4434.3
65°	5195.5	5355.7	4977.5	3958.3	3858.9
67.5°	4583.3	4748.4	3764.4	3392.6	3333.3
70°	3939.1	4105.7	3099.3	2892.6	2878.2
72.5°	3320.5	3443.9	2543.2	2192.3	1846.1
75°	2639.4	2806.1	2044.9	1416.7	1357.4
77.5°	2046.5	1769.2	1234.0	1038.5	818.9
80°	1458.3	1182.7	807.7	431.1	407.0
82.5°	924.7	772.4	317.3	325.3	339.7
85°	482.4	317.3	248.4	266.0	267.6
87.5°	155.4	136.2	149.0	147.4	145.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)