

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-CLI-UNV-L840-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 (P23766)
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-CLI-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

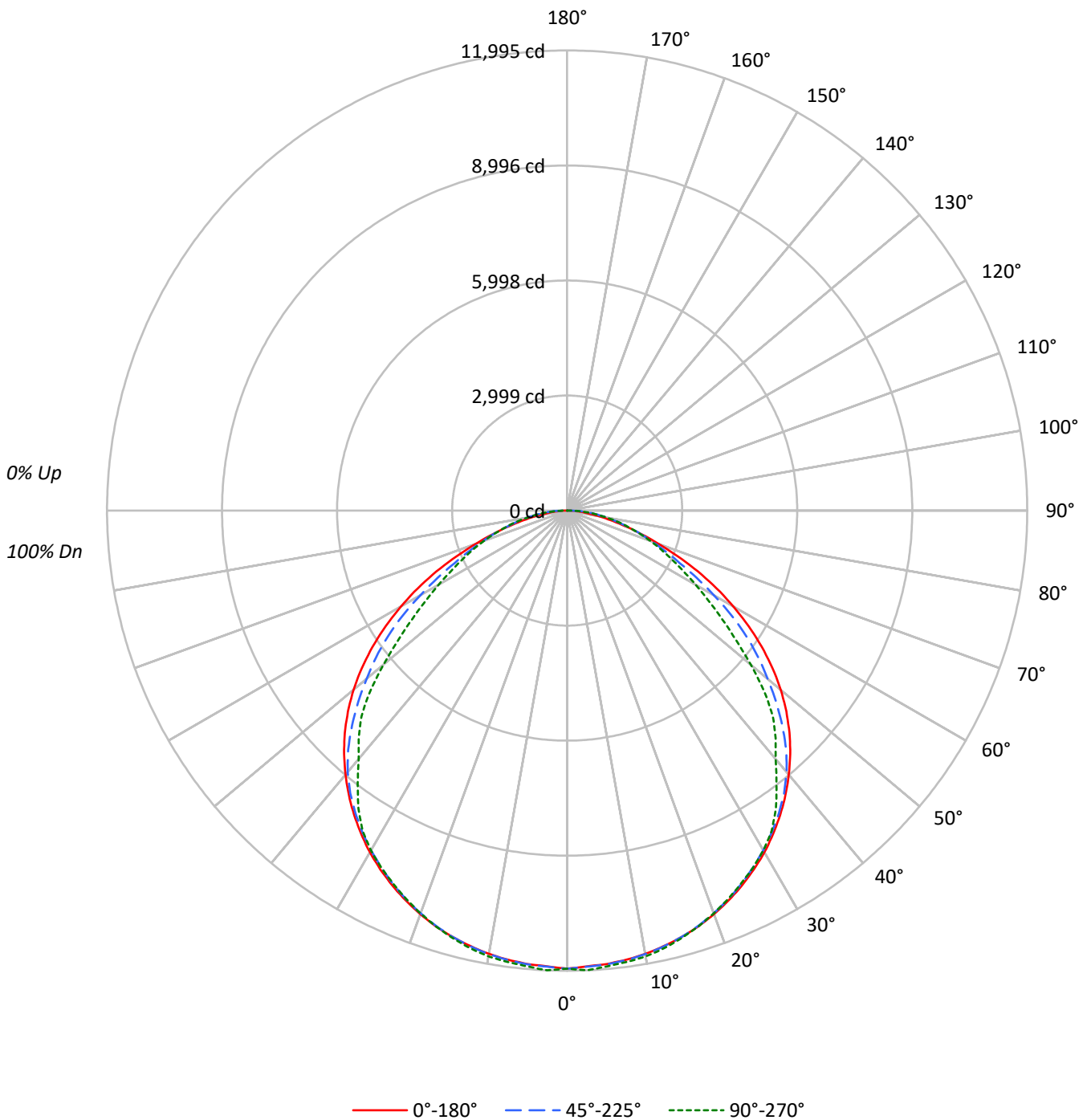
Lumens per Lamp: N/A
Luminaire Lumens: 32081.0 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16066	16066	16066
5°	16023	16035	16106
10°	16032	16040	16124
15°	16034	16032	16070
20°	16030	15993	15997
25°	16005	15946	15927
30°	15979	15883	15892
35°	15905	15806	15582
40°	15791	15630	14842
45°	15591	15092	14432
50°	15216	14288	13070
55°	14523	13363	11557
60°	13478	11923	10423
65°	11980	10323	9584
70°	9942	9226	9034
75°	8041	8443	8547
80°	6386	8075	8041
85°	5002	8674	8276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.4	3.5
10°-20°	3257.2	10.2
20°-30°	4966.7	15.5
30°-40°	6009.0	18.7
40°-50°	6086.6	19.0
50°-60°	5030.7	15.7
60°-70°	3322.7	10.4
70°-80°	1732.6	5.4
80°-90°	543.2	1.7
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°	9356.3	29.2
0°-40°	15365.3	47.9
0°-60°	26482.6	82.5
0°-90°	32081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11941	11941	11941	11941	11941	
5°	11863	11935	11872	11924	11925	###
15°	11511	11570	11509	11545	11536	3250
25°	10781	10824	10741	10768	10728	4971
35°	9683	9696	9623	9610	9487	6057
45°	8194	8172	7931	7685	7584	6309
55°	6191	6099	5697	5143	4927	5518
65°	3763	3654	3242	3032	3010	3717
75°	1547	1574	1624	1646	1644	1685
85°	324	417	562	558	536	393
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11940.7	11940.7	11940.7	11940.7	11940.7
2.5°	11890.6	11960.8	11902.0	11953.6	11995.2
5°	11863.3	11935.0	11871.9	11923.5	11925.0
7.5°	11810.3	11882.0	11817.5	11869.1	11867.6
10°	11734.3	11801.7	11740.0	11801.7	11801.7
12.5°	11631.1	11697.0	11636.8	11694.2	11685.6
15°	11510.7	11569.5	11509.3	11545.1	11536.5
17.5°	11368.8	11421.8	11354.4	11384.5	11367.3
20°	11195.3	11244.1	11169.5	11208.2	11172.4
22.5°	11000.4	11046.2	10970.3	10998.9	10958.8
25°	10781.1	10824.1	10740.9	10768.2	10728.0
27.5°	10544.5	10583.2	10490.1	10523.0	10491.5
30°	10285.1	10303.7	10223.4	10266.4	10229.2
32.5°	9995.5	10007.0	9936.8	9975.5	9912.4
35°	9683.0	9695.9	9622.8	9609.9	9486.6
37.5°	9349.0	9354.8	9286.0	9169.8	8966.3
40°	8990.7	8987.8	8898.9	8630.9	8450.3
42.5°	8607.9	8606.5	8450.3	8144.9	8041.7
45°	8193.7	8172.2	7931.3	7684.8	7584.4
47.5°	7749.3	7726.4	7389.5	7193.1	6965.2
50°	7269.1	7228.9	6826.1	6558.1	6244.2
52.5°	6751.6	6690.0	6280.0	5847.1	5550.4
55°	6191.1	6099.4	5696.6	5143.3	4926.8
57.5°	5607.7	5471.5	5080.2	4541.2	4364.9
60°	5008.5	4856.6	4430.8	3987.9	3873.2
62.5°	4392.1	4241.6	3807.3	3473.3	3410.2
65°	3762.8	3653.9	3242.5	3031.8	3010.3
67.5°	3117.8	3079.1	2765.1	2657.6	2649.0
70°	2527.2	2520.0	2345.1	2290.7	2296.4
72.5°	2019.7	2011.1	1985.3	1958.1	1959.5
75°	1546.7	1573.9	1624.1	1645.6	1644.2
77.5°	1153.9	1209.8	1315.9	1358.9	1351.8
80°	824.2	907.4	1042.1	1082.3	1037.8
82.5°	549.0	636.5	795.6	801.3	765.5
85°	324.0	417.1	561.9	557.6	536.1
87.5°	160.5	250.9	336.9	322.5	308.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)