

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-LD5-12HE-N-CL-UNV-L840-ED1-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CL-UNV-L840-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

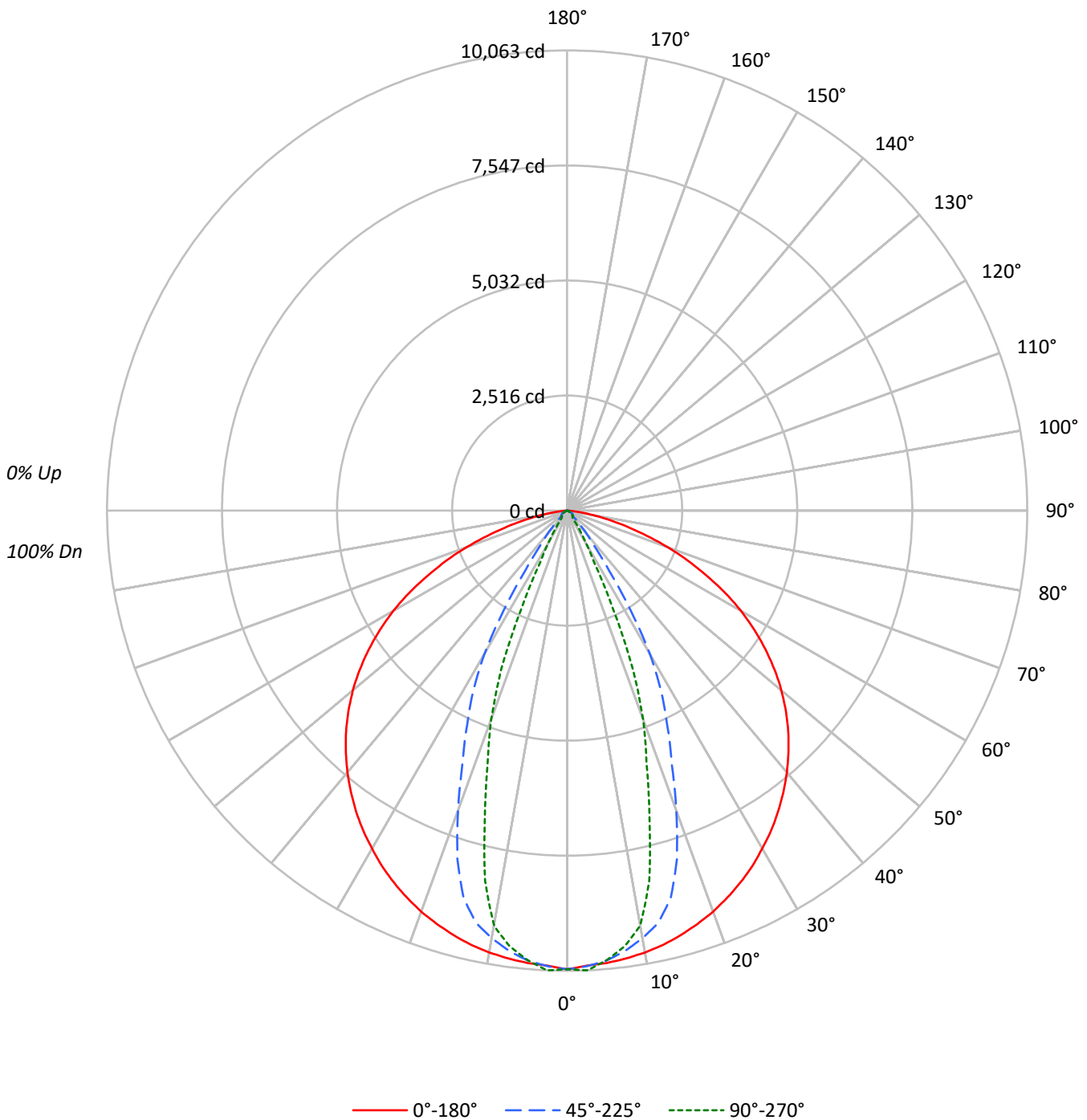
Lumens per Lamp: N/A
Luminaire Lumens: 10727.0 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47				47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13495	13495	13495
5°	13412	13342	13333
10°	13403	12973	12591
15°	13388	12200	9681
20°	13362	9984	6944
25°	13320	7692	3529
30°	13257	5614	1284
35°	13210	2578	447
40°	13128	1170	308
45°	13012	437	312
50°	12804	317	329
55°	12425	334	251
60°	11807	356	221
65°	10708	271	180
70°	9181	196	166
75°	7018	174	158
80°	4390	163	171
85°	1386	190	230



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.8	8.7
10°-20°	2352.3	21.9
20°-30°	2561.8	23.9
30°-40°	1916.3	17.9
40°-50°	1377.9	12.8
50°-60°	846.2	7.9
60°-70°	486.9	4.5
70°-80°	217.3	2.0
80°-90°	34.5	0.3
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°	5847.8	54.5
0°-40°	7764.2	72.4
0°-60°	9988.3	93.1
0°-90°	10727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10030	10030	10030	10030	10030	
5°	9930	9977	9879	9888	9871	944
15°	9611	9427	8758	7522	6950	2713
25°	8972	8329	5181	3324	2377	4136
35°	8042	5768	1570	461	272	5031
45°	6838	3241	229	170	164	5268
55°	5297	673	142	138	107	4722
65°	3363	74	85	71	56	3329
75°	1350	45	33	34	30	1465
85°	90	9	12	16	15	179
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10030.0	10030.0	10030.0	10030.0	10030.0
2.5°	9960.2	10025.4	9970.5	10019.8	10063.4
5°	9930.5	9977.2	9878.6	9887.9	9871.4
7.5°	9879.1	9890.4	9712.3	9643.5	9610.2
10°	9810.4	9780.1	9495.7	9332.0	9215.5
12.5°	9723.6	9623.5	9226.3	8641.7	8293.2
15°	9611.2	9427.0	8758.2	7521.8	6950.0
17.5°	9477.3	9221.7	7983.2	6268.9	5774.1
20°	9332.0	8994.8	6972.6	5330.2	4849.7
22.5°	9160.6	8704.8	5975.8	4433.0	3773.5
25°	8972.2	8328.6	5181.3	3324.4	2376.9
27.5°	8769.0	7832.3	4445.8	2038.6	1285.2
30°	8532.9	7228.2	3613.3	1144.0	826.3
32.5°	8302.4	6524.0	2581.2	762.2	528.1
35°	8042.2	5768.0	1569.5	461.4	272.0
37.5°	7766.6	5080.7	982.4	251.0	187.9
40°	7474.5	4428.9	666.2	178.1	175.5
42.5°	7162.5	3839.1	417.3	169.4	175.0
45°	6838.1	3240.7	229.4	169.9	164.2
47.5°	6486.0	2590.9	160.1	160.6	160.1
50°	6117.0	1858.5	151.4	158.6	157.1
52.5°	5719.2	1153.8	151.9	155.0	139.1
55°	5296.8	673.4	142.2	137.6	106.8
57.5°	4852.8	419.8	139.1	113.4	96.0
60°	4387.8	221.7	132.4	102.1	82.1
62.5°	3892.5	109.3	106.2	87.3	67.2
65°	3363.4	73.9	85.2	70.8	56.5
67.5°	2852.2	66.7	64.2	58.0	49.3
70°	2333.8	61.1	49.8	50.8	42.1
72.5°	1825.1	55.4	40.0	43.6	35.4
75°	1349.9	44.7	33.4	34.4	30.3
77.5°	939.3	34.9	26.2	29.3	28.2
80°	566.6	22.1	21.0	24.1	22.1
82.5°	274.6	14.4	16.4	19.0	17.5
85°	89.8	8.7	12.3	15.9	14.9
87.5°	11.3	5.1	10.3	13.9	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)