

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-LD5-60HE-W-CL-UNV-L740-ED4-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 (P23762)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-CL-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

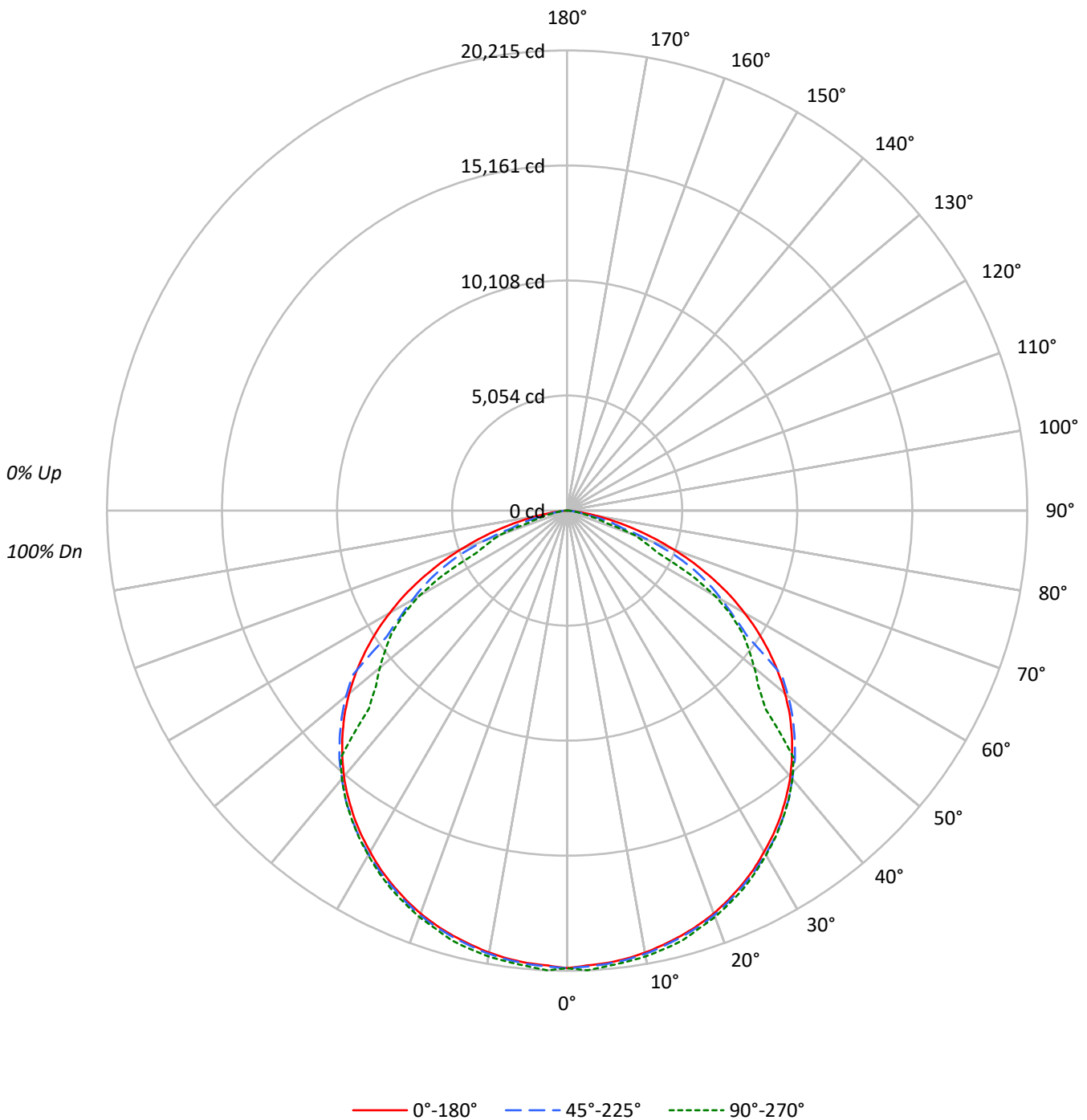
Lumens per Lamp: N/A
Luminaire Lumens: 54332.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 369
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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27041	27041	27041
5°	26942	27002	27134
10°	26939	27016	27174
15°	26938	27020	27238
20°	26972	27073	27199
25°	26941	27042	27206
30°	26890	27088	27148
35°	26877	27122	27142
40°	26793	27030	27030
45°	26563	26885	23425
50°	26153	26548	22476
55°	25412	22725	22077
60°	24219	21124	20169
65°	22398	19609	13968
70°	19503	15258	12447
75°	15405	10240	6691
80°	9916	4892	4171
85°	4080	2984	3287



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1906.4	3.5
10°-20°	5494.9	10.1
20°-30°	8424.5	15.5
30°-40°	10325.5	19.0
40°-50°	10615.4	19.5
50°-60°	9059.8	16.7
60°-70°	5989.6	11.0
70°-80°	2219.1	4.1
80°-90°	296.7	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°	15825.8	29.1
0°-40°	26151.4	48.1
0°-60°	45826.6	84.3
0°-90°	54332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	54332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20097	20097	20097	20097	20097	
5°	19948	20087	19992	20070	20090	###
15°	19339	19456	19397	19544	19554	5462
25°	18147	18242	18216	18379	18326	8367
35°	16363	16476	16512	16615	16525	10235
45°	13960	14100	14129	14107	12311	10758
55°	10833	11031	9688	9406	9411	9666
65°	7035	7094	6159	5065	4388	6937
75°	2963	2596	1970	1324	1287	3179
85°	264	188	193	210	213	437
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20097.2	20097.2	20097.2	20097.2	20097.2
2.5°	19999.3	20124.1	20050.7	20143.7	20214.7
5°	19947.9	20087.4	19992.0	20070.3	20089.9
7.5°	19859.8	19989.5	19901.4	20004.2	19989.5
10°	19717.9	19835.4	19774.2	19881.9	19889.2
12.5°	19536.8	19654.3	19598.0	19730.2	19727.7
15°	19338.6	19456.1	19397.4	19544.2	19554.0
17.5°	19106.2	19213.8	19169.8	19304.4	19250.5
20°	18837.0	18930.0	18908.0	19035.2	18996.1
22.5°	18506.7	18602.1	18580.1	18726.9	18668.2
25°	18146.9	18242.4	18215.5	18379.4	18325.6
27.5°	17757.9	17848.4	17846.0	18000.1	17916.9
30°	17307.6	17427.5	17434.9	17571.9	17474.0
32.5°	16862.3	16974.8	17006.6	17107.0	17023.8
35°	16363.1	16475.6	16512.3	16615.1	16524.6
37.5°	15824.7	15920.2	15986.2	16062.1	15991.1
40°	15254.6	15340.2	15389.2	15482.2	15389.2
42.5°	14618.4	14740.7	14809.2	14875.3	14723.6
45°	13960.1	14099.6	14129.0	14106.9	12310.9
47.5°	13262.7	13414.4	13431.6	11713.8	11383.4
50°	12494.4	12685.2	12682.8	10825.5	10737.4
52.5°	11694.2	11877.7	11870.4	10130.6	10071.8
55°	10832.9	11031.1	9687.7	9406.3	9411.2
57.5°	9954.4	10096.3	8691.7	8704.0	8542.5
60°	9000.1	9134.6	7850.0	7774.1	7495.2
62.5°	8043.3	8099.6	7035.1	6665.6	6134.6
65°	7035.1	7093.8	6159.1	5065.3	4387.5
67.5°	6000.0	6058.8	5111.8	3768.4	3717.0
70°	4957.6	4478.0	3878.5	3139.5	3164.0
72.5°	3929.9	3440.5	2535.1	2432.3	1756.9
75°	2963.3	2596.3	1969.8	1323.8	1287.1
77.5°	2062.8	1788.8	1054.7	902.9	844.2
80°	1279.8	898.0	631.3	560.4	538.3
82.5°	648.5	516.3	342.6	342.6	342.6
85°	264.3	188.4	193.3	210.4	212.9
87.5°	56.3	75.9	93.0	95.4	93.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)