

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-WG-UNV-L840-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-60HE-W-WG-UNV-L840-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

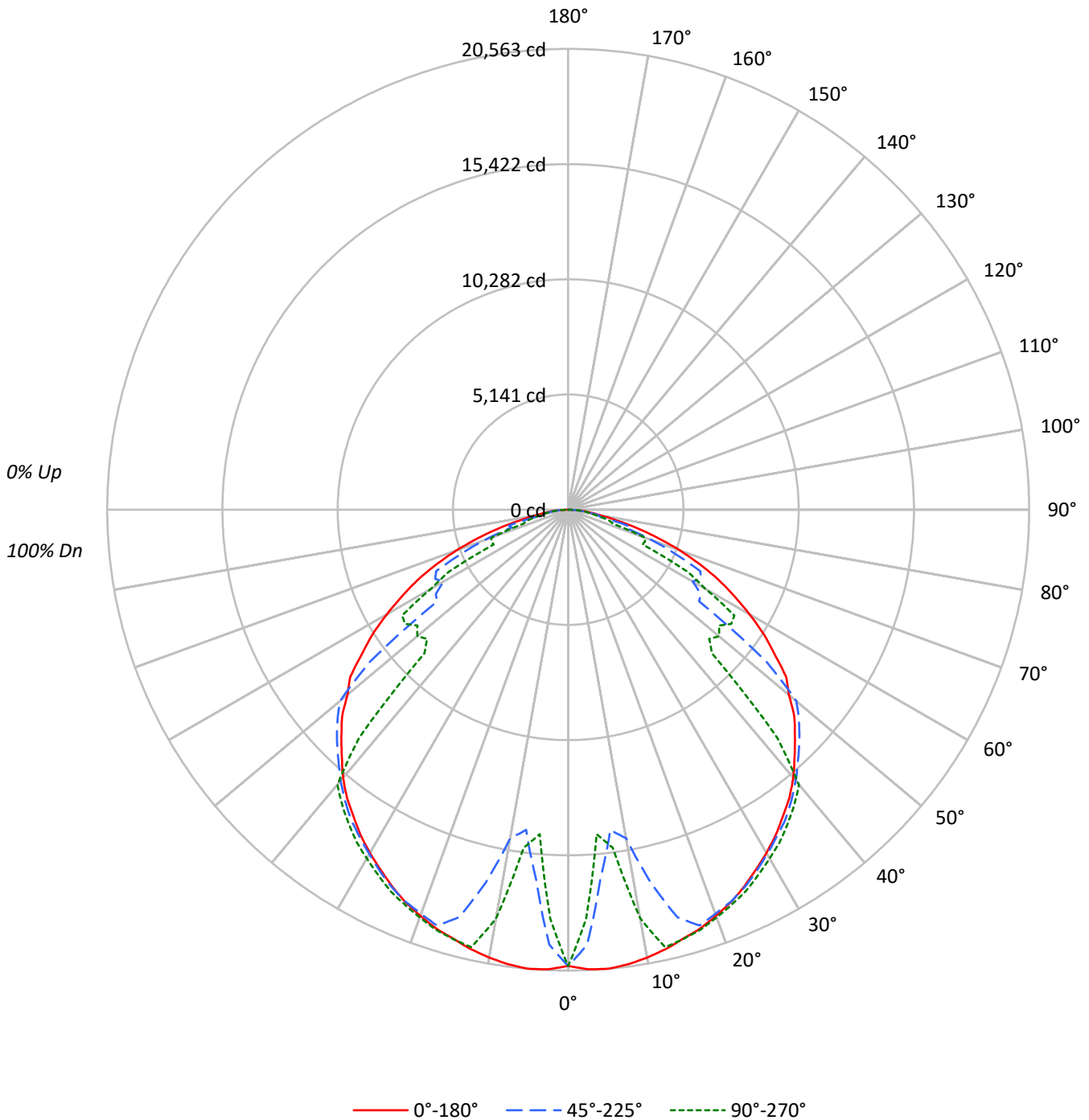
Lumens per Lamp: N/A
Luminaire Lumens: 53934.0 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27392	27392	27392
5°	27773	22312	19622
10°	27725	20348	25307
15°	27602	26225	27626
20°	27602	27477	27721
25°	27553	27614	27867
30°	27473	27564	27919
35°	27430	27733	28057
40°	27433	27732	28130
45°	27218	27751	17245
50°	26910	27807	18380
55°	26342	16720	20832
60°	25129	17235	19076
65°	23545	20693	11672
70°	20791	15677	14307
75°	16565	14250	9921
80°	11412	10298	8526
85°	10936	9508	9019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1628.0	3.0
10°-20°	5100.2	9.5
20°-30°	8390.8	15.6
30°-40°	10550.4	19.6
40°-50°	10347.3	19.2
50°-60°	8573.2	15.9
60°-70°	6046.9	11.2
70°-80°	2638.2	4.9
80°-90°	659.1	1.2
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°	15118.9	28.0
0°-40°	25669.3	47.6
0°-60°	44589.8	82.7
0°-90°	53934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20358	20358	20358	20358	20358	
5°	20563	19139	16519	14978	14528	###
15°	19816	13761	18827	19893	19832	5603
25°	18559	16982	18601	18725	18771	8555
35°	16700	16690	16884	16996	17082	10463
45°	14304	14348	14584	12917	9063	11041
55°	11230	11597	7128	8104	8880	10047
65°	7396	7831	6500	5000	3666	7272
75°	3186	3123	2741	1792	1908	3417
85°	708	630	616	589	584	735
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20358.3	20358.3	20358.3	20358.3	20358.3
2.5°	20526.3	20100.3	19423.5	18571.5	18269.7
5°	20562.8	19138.7	16519.4	14978.5	14528.1
7.5°	20458.1	17393.3	14401.5	14725.3	15202.4
10°	20292.6	15859.7	14893.3	17522.3	18522.8
12.5°	20080.8	14496.5	17062.2	19793.6	19993.2
15°	19815.5	13761.3	18827.1	19893.4	19832.5
17.5°	19591.5	14192.2	19460.1	19693.8	19649.9
20°	19277.5	15051.5	19189.9	19377.3	19360.3
22.5°	18961.0	16069.0	18934.2	19068.1	19068.1
25°	18559.4	16981.9	18600.7	18724.9	18771.1
27.5°	18118.7	17507.7	18184.5	18286.7	18369.5
30°	17683.0	17583.2	17741.4	17872.9	17970.3
32.5°	17222.9	17184.0	17308.1	17446.9	17571.0
35°	16699.5	16689.8	16884.5	16996.5	17081.7
37.5°	16207.8	16173.7	16353.9	16509.7	16575.4
40°	15618.7	15618.7	15789.1	15947.3	16015.5
42.5°	14946.8	15041.7	15173.2	15336.3	13812.4
45°	14304.1	14348.0	14584.1	12916.6	9063.0
47.5°	13685.8	13741.8	13965.8	8303.5	8529.9
50°	12855.7	13108.9	13284.2	8279.2	8780.6
52.5°	12249.6	12359.1	11151.7	8196.4	8478.8
55°	11229.6	11597.2	7127.7	8103.9	8880.4
57.5°	10358.1	10625.9	7008.4	8303.5	8785.5
60°	9338.1	9747.1	6404.7	8011.4	7088.8
62.5°	8359.5	8749.0	6687.1	6304.9	6003.1
65°	7395.5	7831.3	6499.7	5000.1	3666.1
67.5°	6339.0	5932.5	5185.1	3522.5	3707.5
70°	5284.9	4143.2	3985.0	3938.8	3636.9
72.5°	4201.7	3023.4	2646.1	2955.3	2115.4
75°	3186.5	3123.2	2741.1	1791.7	1908.5
77.5°	2210.4	2254.2	1467.9	1747.9	1450.9
80°	1472.8	1275.6	1329.1	1114.9	1100.3
82.5°	1020.0	1041.9	873.9	847.1	859.3
85°	708.4	630.5	615.9	589.1	584.2
87.5°	236.1	275.1	255.6	231.3	245.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)