

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-UNV-L735-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 (P23760)
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-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

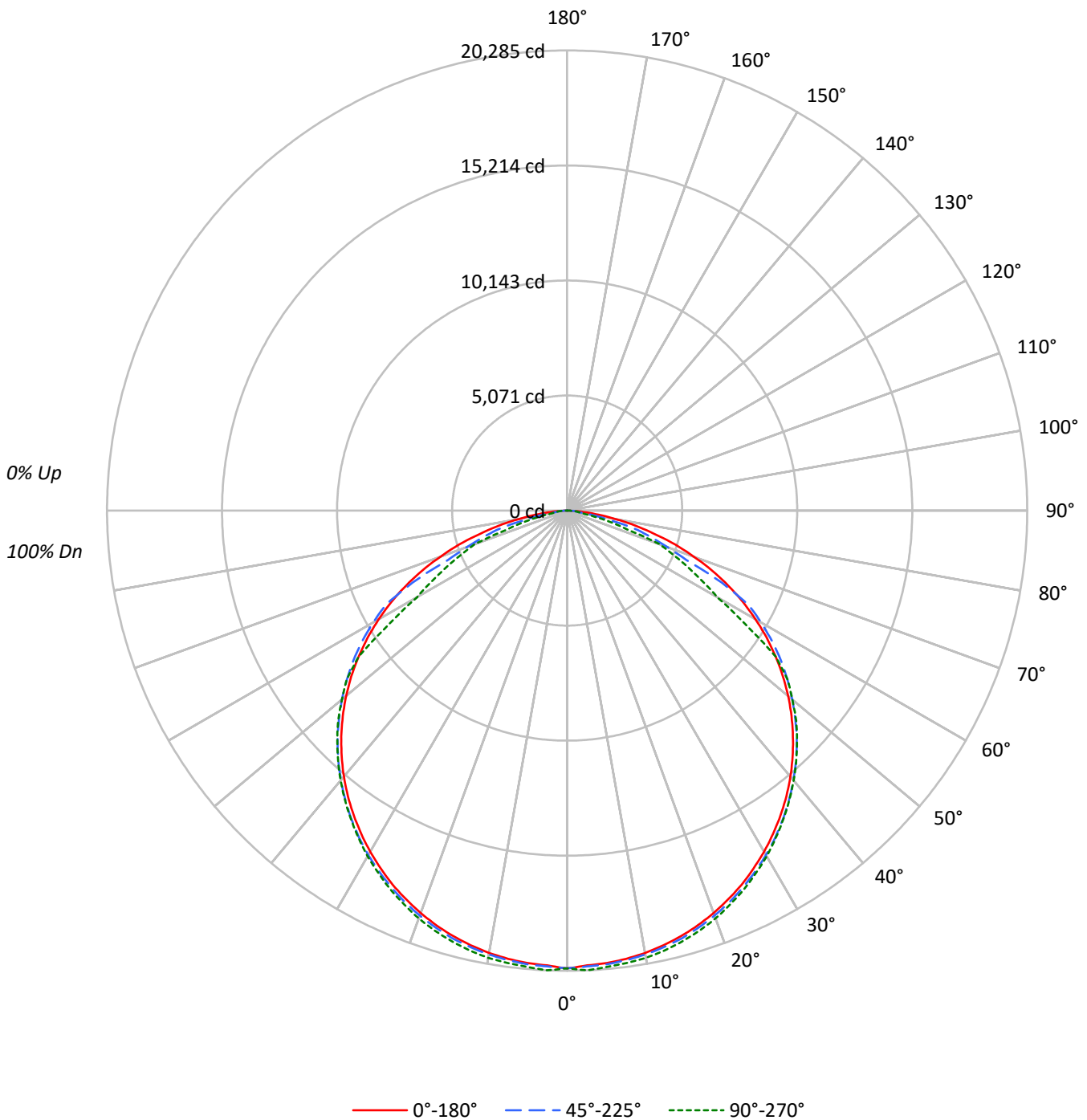
Lumens per Lamp: N/A
Luminaire Lumens: 58253.0 lumens
Efficiency: N/A
Efficacy: 157.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27150	27150	27150
5°	27038	27113	27266
10°	27053	27149	27354
15°	27046	27191	27380
20°	27032	27205	27396
25°	27022	27216	27367
30°	26975	27238	27340
35°	26941	27251	27287
40°	26892	27249	27292
45°	26791	27237	27270
50°	26631	27122	27117
55°	26320	26978	26309
60°	25832	26580	20584
65°	24970	23922	18546
70°	23392	18406	17092
75°	20713	16047	10652
80°	17057	9448	4761
85°	11242	5789	6237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1914.8	3.3
10°-20°	5524.4	9.5
20°-30°	8469.6	14.5
30°-40°	10387.1	17.8
40°-50°	11029.4	18.9
50°-60°	10074.0	17.3
60°-70°	7015.5	12.0
70°-80°	3272.1	5.6
80°-90°	566.0	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°	15908.9	27.3
0°-40°	26296.0	45.1
0°-60°	47399.4	81.4
0°-90°	58253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	58253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20178	20178	20178	20178	20178	
5°	20019	20159	20074	20171	20188	###
15°	19416	19552	19520	19639	19656	5483
25°	18202	18362	18332	18468	18434	8388
35°	16402	16591	16591	16702	16612	10264
45°	14080	14292	14314	14406	14331	10859
55°	11220	11445	11501	11520	11215	10020
65°	7843	8085	7514	5975	5825	7739
75°	3984	4236	3087	2138	2049	4259
85°	728	479	375	402	404	941
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20178.3	20178.3	20178.3	20178.3	20178.3
2.5°	20071.9	20200.1	20115.4	20207.3	20284.8
5°	20018.6	20159.0	20074.3	20171.1	20188.0
7.5°	19931.6	20064.6	19987.2	20093.6	20120.2
10°	19800.9	19931.6	19871.1	19996.9	20021.1
12.5°	19624.3	19757.4	19711.4	19849.3	19866.2
15°	19416.3	19551.7	19520.3	19638.8	19655.8
17.5°	19171.9	19312.2	19276.0	19401.8	19413.9
20°	18879.2	19031.6	19000.2	19147.7	19133.2
22.5°	18550.2	18712.3	18688.1	18835.7	18792.1
25°	18201.8	18361.5	18332.5	18468.0	18434.1
27.5°	17793.0	17969.6	17943.0	18073.6	18020.4
30°	17362.4	17541.4	17531.7	17650.3	17597.1
32.5°	16897.9	17089.0	17079.4	17195.5	17113.2
35°	16402.0	16590.7	16590.7	16702.0	16612.5
37.5°	15877.0	16068.1	16070.6	16177.0	16092.3
40°	15310.9	15502.1	15514.1	15615.8	15538.3
42.5°	14715.8	14923.9	14933.5	15025.5	14952.9
45°	14079.6	14292.5	14314.2	14406.2	14331.2
47.5°	13414.3	13629.6	13649.0	13748.2	13694.9
50°	12722.4	12930.5	12957.1	13039.3	12954.7
52.5°	11991.8	12204.7	12241.0	12291.8	12253.1
55°	11220.1	11445.1	11500.7	11520.1	11215.3
57.5°	10421.8	10651.6	10704.8	10259.7	9279.9
60°	9599.3	9826.7	9877.5	8346.1	7649.4
62.5°	8742.9	8965.4	9021.1	6916.4	6693.8
65°	7843.0	8084.9	7513.9	5975.4	5825.4
67.5°	6918.8	7168.0	5682.6	5121.4	5031.9
70°	5946.3	6197.9	4678.7	4366.6	4344.8
72.5°	5012.5	5198.8	3839.2	3309.4	2786.9
75°	3984.4	4236.0	3086.9	2138.5	2049.0
77.5°	3089.3	2670.8	1862.8	1567.6	1236.2
80°	2201.4	1785.3	1219.3	650.8	614.5
82.5°	1395.9	1166.0	479.0	491.1	512.9
85°	728.2	479.0	375.0	401.6	404.0
87.5°	234.7	205.6	225.0	222.6	220.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)