

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-CLI-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 (P23766)
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-CLI-UNV-L735-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

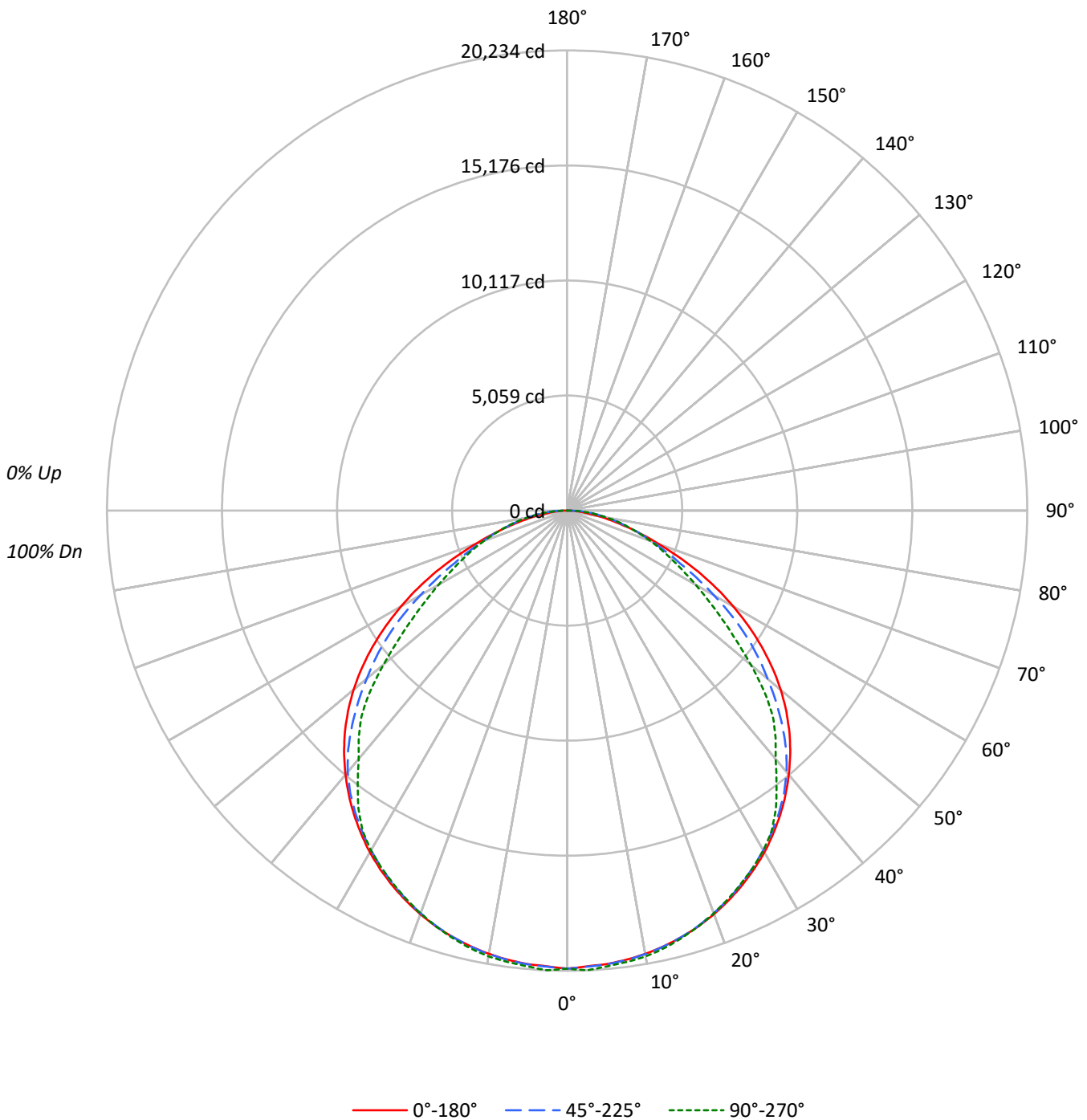
Lumens per Lamp: N/A
Luminaire Lumens: 54117.0 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	27102	27102	27102
5°	27029	27049	27169
10°	27044	27057	27199
15°	27047	27044	27108
20°	27041	26978	26985
25°	26999	26899	26867
30°	26955	26794	26809
35°	26830	26663	26285
40°	26638	26366	25037
45°	26300	25458	24345
50°	25667	24103	22048
55°	24499	22542	19496
60°	22736	20113	17582
65°	20209	17414	16167
70°	16771	15563	15239
75°	13564	14243	14418
80°	10773	13621	13565
85°	8437	14633	13962



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1910.2	3.5
10°-20°	5494.6	10.2
20°-30°	8378.3	15.5
30°-40°	10136.5	18.7
40°-50°	10267.4	19.0
50°-60°	8486.2	15.7
60°-70°	5605.0	10.4
70°-80°	2922.7	5.4
80°-90°	916.3	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°	15783.1	29.2
0°-40°	25919.6	47.9
0°-60°	44673.1	82.5
0°-90°	54117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	54117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20143	20143	20143	20143	20143	
5°	20012	20133	20027	20114	20116	###
15°	19417	19516	19415	19475	19461	5483
25°	18186	18259	18119	18165	18097	8386
35°	16334	16356	16233	16211	16003	10217
45°	13822	13786	13379	12963	12794	10643
55°	10444	10289	9610	8676	8311	9308
65°	6348	6164	5470	5114	5078	6269
75°	2609	2655	2740	2776	2774	2842
85°	546	704	948	941	904	663
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20142.7	20142.7	20142.7	20142.7	20142.7
2.5°	20058.0	20176.5	20077.4	20164.4	20234.5
5°	20012.1	20133.0	20026.6	20113.6	20116.1
7.5°	19922.6	20043.5	19934.7	20021.7	20019.3
10°	19794.4	19908.1	19804.1	19908.1	19908.1
12.5°	19620.3	19731.6	19630.0	19726.7	19712.2
15°	19417.2	19516.4	19414.8	19475.3	19460.8
17.5°	19177.8	19267.3	19153.7	19204.4	19175.4
20°	18885.2	18967.5	18841.7	18907.0	18846.6
22.5°	18556.4	18633.8	18505.6	18554.0	18486.3
25°	18186.4	18259.0	18118.7	18164.7	18097.0
27.5°	17787.4	17852.7	17695.6	17751.2	17698.0
30°	17349.8	17381.2	17245.8	17318.3	17255.5
32.5°	16861.3	16880.7	16762.2	16827.5	16721.1
35°	16334.2	16355.9	16232.6	16210.8	16002.9
37.5°	15770.8	15780.4	15664.4	15468.5	15125.1
40°	15166.2	15161.4	15011.5	14559.3	14254.6
42.5°	14520.6	14518.2	14254.6	13739.6	13565.5
45°	13821.8	13785.5	13379.3	12963.4	12794.1
47.5°	13072.2	13033.5	12465.2	12134.0	11749.5
50°	12262.1	12194.4	11514.9	11062.7	10533.2
52.5°	11389.2	11285.2	10593.6	9863.4	9362.8
55°	10443.7	10289.0	9609.5	8676.1	8311.0
57.5°	9459.6	9229.8	8569.7	7660.5	7363.1
60°	8448.8	8192.5	7474.3	6727.1	6533.7
62.5°	7409.0	7155.1	6422.4	5859.0	5752.6
65°	6347.5	6163.7	5469.7	5114.3	5078.0
67.5°	5259.3	5194.0	4664.5	4483.1	4468.6
70°	4263.1	4251.0	3956.0	3864.1	3873.8
72.5°	3407.1	3392.6	3349.0	3303.1	3305.5
75°	2609.1	2655.1	2739.7	2776.0	2773.5
77.5°	1946.6	2040.9	2219.8	2292.3	2280.3
80°	1390.4	1530.6	1757.9	1825.7	1750.7
82.5°	926.1	1073.6	1342.0	1351.7	1291.3
85°	546.5	703.7	947.9	940.6	904.4
87.5°	270.8	423.2	568.3	544.1	519.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)