

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-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 (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-L840-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

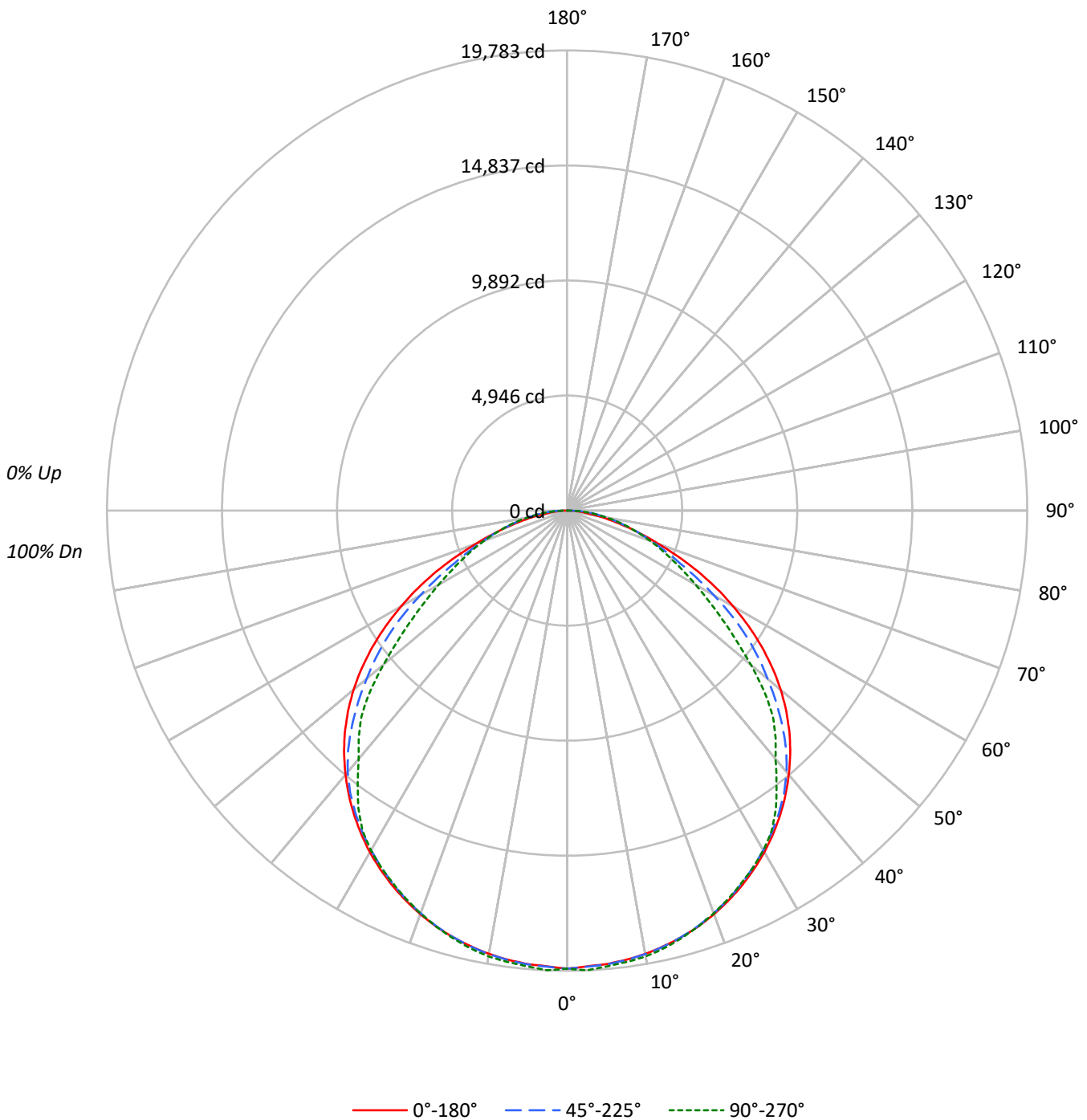
Lumens per Lamp: N/A
Luminaire Lumens: 52909.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	26497	26497	26497
5°	26426	26445	26563
10°	26440	26453	26592
15°	26444	26440	26503
20°	26437	26376	26383
25°	26397	26298	26267
30°	26354	26196	26210
35°	26231	26068	25699
40°	26044	25778	24478
45°	25713	24890	23801
50°	25094	23565	21556
55°	23952	22039	19060
60°	22228	19664	17189
65°	19757	17025	15806
70°	16396	15215	14899
75°	13261	13924	14096
80°	10533	13317	13262
85°	8248	14306	13650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1867.6	3.5
10°-20°	5371.9	10.2
20°-30°	8191.2	15.5
30°-40°	9910.2	18.7
40°-50°	10038.2	19.0
50°-60°	8296.8	15.7
60°-70°	5479.9	10.4
70°-80°	2857.4	5.4
80°-90°	895.8	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°	15430.8	29.2
0°-40°	25341.0	47.9
0°-60°	43675.9	82.5
0°-90°	52909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	52909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19693	19693	19693	19693	19693	
5°	19565	19684	19580	19665	19667	###
15°	18984	19081	18981	19040	19026	5361
25°	17780	17851	17714	17759	17693	8199
35°	15970	15991	15870	15849	15646	9989
45°	13513	13478	13081	12674	12508	10405
55°	10211	10059	9395	8482	8125	9101
65°	6206	6026	5348	5000	4965	6129
75°	2551	2596	2678	2714	2712	2779
85°	534	688	927	920	884	649
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19693.0	19693.0	19693.0	19693.0	19693.0
2.5°	19610.3	19726.1	19629.2	19714.3	19782.9
5°	19565.4	19683.6	19579.6	19664.7	19667.0
7.5°	19477.9	19596.1	19489.7	19574.8	19572.5
10°	19352.6	19463.7	19362.1	19463.7	19463.7
12.5°	19182.4	19291.1	19191.8	19286.4	19272.2
15°	18983.8	19080.7	18981.4	19040.5	19026.4
17.5°	18749.7	18837.2	18726.1	18775.8	18747.4
20°	18463.7	18544.1	18421.1	18485.0	18425.9
22.5°	18142.2	18217.8	18092.5	18139.8	18073.6
25°	17780.5	17851.4	17714.3	17759.2	17693.0
27.5°	17390.4	17454.2	17300.6	17354.9	17302.9
30°	16962.5	16993.2	16860.8	16931.7	16870.3
32.5°	16484.9	16503.8	16388.0	16451.8	16347.8
35°	15969.6	15990.8	15870.3	15849.0	15645.7
37.5°	15418.7	15428.2	15314.7	15123.2	14787.5
40°	14827.7	14823.0	14676.4	14234.3	13936.4
42.5°	14196.5	14194.1	13936.4	13432.9	13262.7
45°	13513.2	13477.8	13080.6	12674.0	12508.5
47.5°	12780.4	12742.5	12187.0	11863.1	11487.2
50°	11988.4	11922.2	11257.9	10815.8	10298.1
52.5°	11135.0	11033.3	10357.2	9643.2	9153.8
55°	10210.6	10059.3	9395.0	8482.4	8125.4
57.5°	9248.4	9023.8	8378.4	7489.5	7198.7
60°	8260.2	8009.6	7307.5	6577.0	6387.8
62.5°	7243.6	6995.4	6279.1	5728.2	5624.2
65°	6205.8	6026.1	5347.6	5000.1	4964.6
67.5°	5141.9	5078.1	4560.4	4383.1	4368.9
70°	4167.9	4156.1	3867.7	3777.8	3787.3
72.5°	3331.0	3316.8	3274.3	3229.4	3231.7
75°	2550.9	2595.8	2678.5	2714.0	2711.6
77.5°	1903.1	1995.3	2170.3	2241.2	2229.4
80°	1359.4	1496.5	1718.7	1784.9	1711.6
82.5°	905.5	1049.7	1312.1	1321.5	1262.4
85°	534.3	688.0	926.7	919.6	884.2
87.5°	264.8	413.7	555.6	531.9	508.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)