

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-L835-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-L835-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

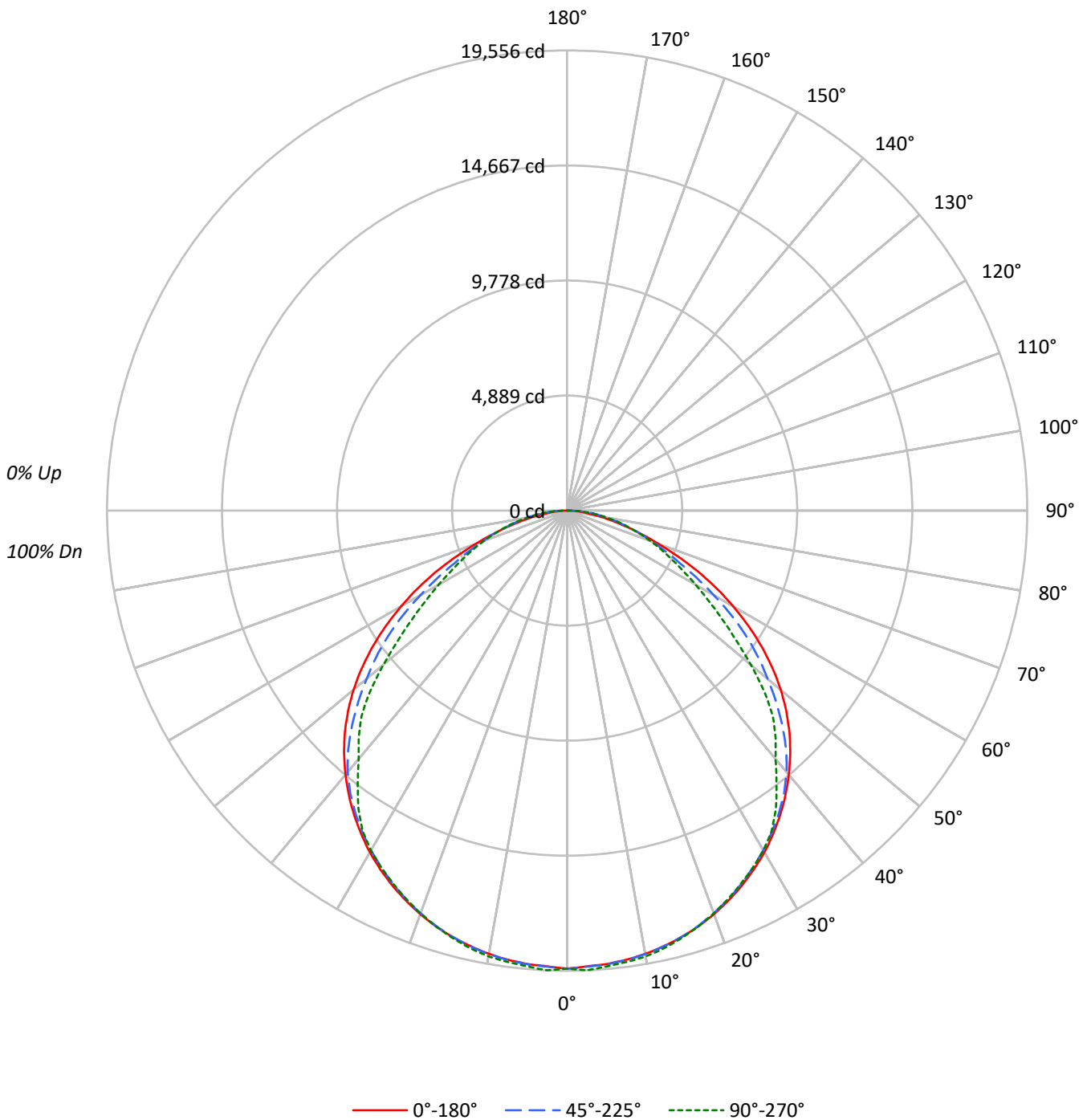
Lumens per Lamp: N/A  
Luminaire Lumens: 52303.0 lumens  
Efficiency: N/A  
Efficacy: 141.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	26193	26193	26193
5°	26123	26142	26259
10°	26138	26150	26288
15°	26141	26137	26199
20°	26134	26074	26081
25°	26094	25997	25966
30°	26052	25896	25910
35°	25930	25769	25404
40°	25745	25483	24198
45°	25419	24605	23529
50°	24807	23295	21309
55°	23677	21786	18842
60°	21973	19439	16993
65°	19531	16830	15625
70°	16209	15041	14728
75°	13109	13765	13935
80°	10412	13164	13110
85°	8154	14143	13493



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1846.2	3.5
10°-20°	5310.4	10.2
20°-30°	8097.4	15.5
30°-40°	9796.7	18.7
40°-50°	9923.2	19.0
50°-60°	8201.7	15.7
60°-70°	5417.1	10.4
70°-80°	2824.7	5.4
80°-90°	885.5	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°	15254.0	29.2
0°-40°	25050.7	47.9
0°-60°	43175.7	82.5
0°-90°	52303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	52303.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19468	19468	19468	19468	19468	
5°	19341	19458	19355	19439	19442	###
15°	18766	18862	18764	18822	18808	5299
25°	17577	17647	17511	17556	17490	8105
35°	15787	15808	15688	15668	15466	9874
45°	13358	13323	12931	12529	12365	10286
55°	10094	9944	9287	8385	8032	8996
65°	6135	5957	5286	4943	4908	6059
75°	2522	2566	2648	2683	2681	2747
85°	528	680	916	909	874	641
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19467.5	19467.5	19467.5	19467.5	19467.5
2.5°	19385.7	19500.2	19404.4	19488.5	19556.3
5°	19341.3	19458.1	19355.3	19439.4	19441.8
7.5°	19254.8	19371.7	19266.5	19350.6	19348.3
10°	19130.9	19240.8	19140.3	19240.8	19240.8
12.5°	18962.7	19070.2	18972.0	19065.5	19051.5
15°	18766.4	18862.2	18764.0	18822.5	18808.4
17.5°	18535.0	18621.5	18511.6	18560.7	18532.7
20°	18252.2	18331.7	18210.1	18273.2	18214.8
22.5°	17934.4	18009.2	17885.3	17932.0	17866.6
25°	17576.8	17646.9	17511.4	17555.8	17490.3
27.5°	17191.2	17254.3	17102.4	17156.1	17104.7
30°	16768.2	16798.6	16667.7	16737.8	16677.1
32.5°	16296.1	16314.8	16200.3	16263.4	16160.6
35°	15786.6	15807.7	15688.5	15667.5	15466.5
37.5°	15242.1	15251.5	15139.3	14950.0	14618.1
40°	14657.9	14653.2	14508.3	14071.3	13776.8
42.5°	14033.9	14031.5	13776.8	13279.0	13110.7
45°	13358.5	13323.4	12930.8	12528.8	12365.2
47.5°	12634.0	12596.6	12047.4	11727.2	11355.6
50°	11851.1	11785.6	11128.9	10691.9	10180.1
52.5°	11007.4	10906.9	10238.5	9532.8	9049.0
55°	10093.6	9944.1	9287.4	8385.3	8032.4
57.5°	9142.5	8920.4	8282.4	7403.7	7116.3
60°	8165.6	7917.9	7223.8	6501.6	6314.7
62.5°	7160.7	6915.3	6207.2	5662.6	5559.8
65°	6134.7	5957.1	5286.4	4942.8	4907.8
67.5°	5083.0	5019.9	4508.1	4332.9	4318.8
70°	4120.2	4108.5	3823.4	3734.6	3743.9
72.5°	3292.9	3278.9	3236.8	3192.4	3194.7
75°	2521.7	2566.1	2647.9	2682.9	2680.6
77.5°	1881.3	1972.5	2145.4	2215.5	2203.8
80°	1343.8	1479.3	1699.0	1764.5	1692.0
82.5°	895.1	1037.6	1297.1	1306.4	1248.0
85°	528.2	680.1	916.1	909.1	874.0
87.5°	261.7	409.0	549.2	525.8	502.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)