

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-CL-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 (P23762)  
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-CL-UNV-L735-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

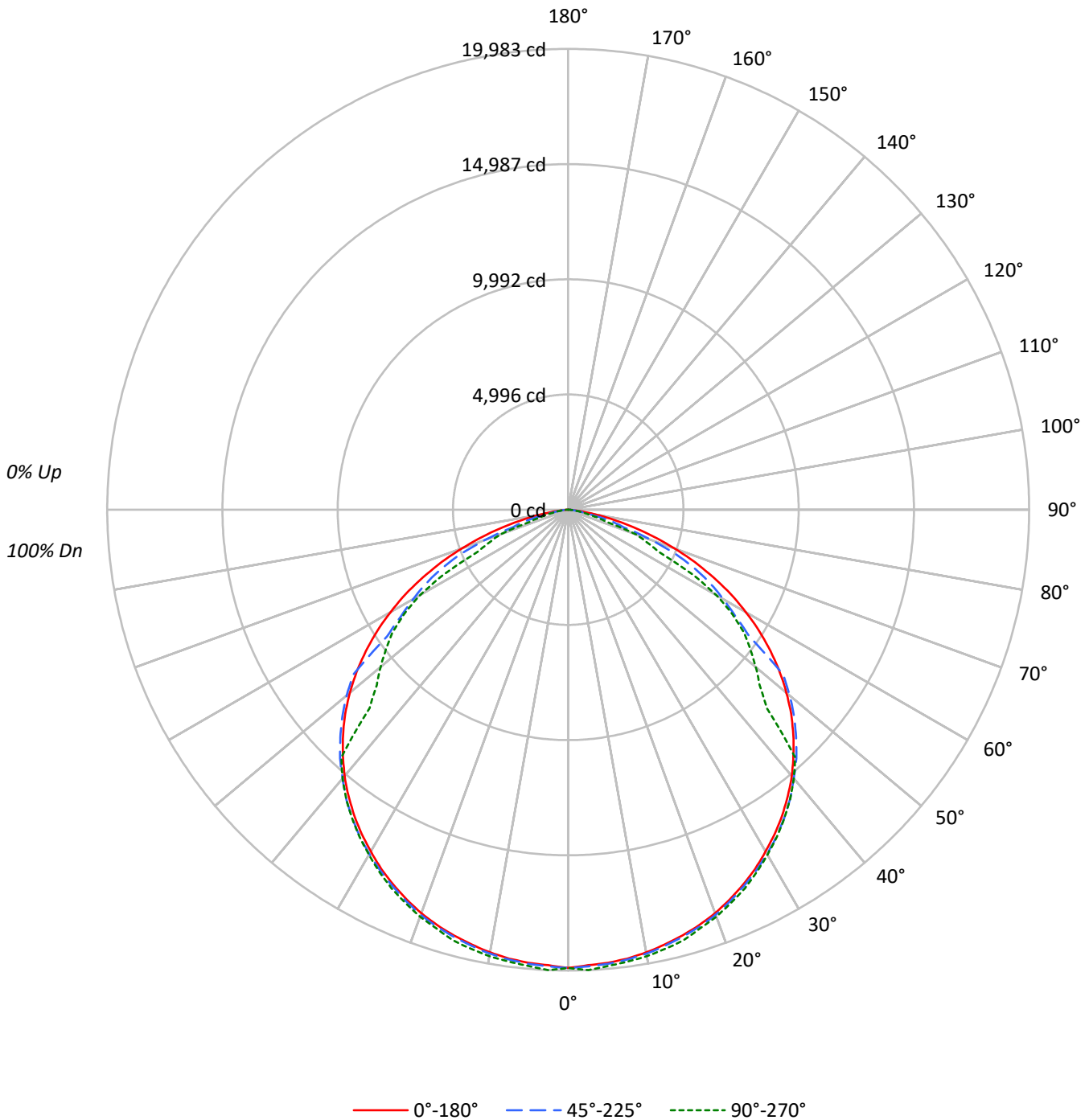
Lumens per Lamp: N/A  
Luminaire Lumens: 53710.0 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	26731	26731	26731
5°	26634	26693	26823
10°	26631	26707	26862
15°	26629	26710	26926
20°	26663	26763	26888
25°	26632	26733	26894
30°	26582	26777	26838
35°	26569	26812	26832
40°	26487	26720	26720
45°	26259	26577	23157
50°	25854	26244	22218
55°	25121	22465	21824
60°	23942	20882	19939
65°	22141	19384	13808
70°	19280	15083	12304
75°	15229	10123	6615
80°	9802	4836	4124
85°	4034	2950	3250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1884.6	3.5
10°-20°	5432.0	10.1
20°-30°	8328.1	15.5
30°-40°	10207.3	19.0
40°-50°	10493.9	19.5
50°-60°	8956.1	16.7
60°-70°	5921.0	11.0
70°-80°	2193.7	4.1
80°-90°	293.4	0.5
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°	15644.6	29.1
0°-40°	25852.0	48.1
0°-60°	45301.9	84.3
0°-90°	53710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	53710.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19867	19867	19867	19867	19867	
5°	19720	19858	19763	19840	19860	###
15°	19117	19233	19175	19320	19330	5400
25°	17939	18034	18007	18169	18116	8271
35°	16176	16287	16323	16425	16335	10118
45°	13800	13938	13967	13946	12170	10635
55°	10709	10905	9577	9299	9303	9555
65°	6955	7013	6089	5007	4337	6858
75°	2929	2566	1947	1309	1272	3143
85°	261	186	191	208	210	432
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19867.1	19867.1	19867.1	19867.1	19867.1
2.5°	19770.4	19893.7	19821.2	19913.1	19983.2
5°	19719.6	19857.5	19763.1	19840.5	19859.9
7.5°	19632.5	19760.7	19673.6	19775.2	19760.7
10°	19492.2	19608.3	19547.8	19654.3	19661.5
12.5°	19313.2	19429.3	19373.7	19504.3	19501.9
15°	19117.2	19233.4	19175.3	19320.4	19330.1
17.5°	18887.4	18993.9	18950.3	19083.4	19030.2
20°	18621.3	18713.3	18691.5	18817.3	18778.6
22.5°	18294.8	18389.1	18367.4	18512.5	18454.4
25°	17939.2	18033.5	18006.9	18169.0	18115.8
27.5°	17554.6	17644.1	17641.7	17794.1	17711.8
30°	17109.5	17228.0	17235.3	17370.7	17274.0
32.5°	16669.2	16780.5	16811.9	16911.1	16828.9
35°	16175.8	16287.0	16323.3	16424.9	16335.4
37.5°	15643.6	15737.9	15803.2	15878.2	15808.1
40°	15080.0	15164.6	15213.0	15304.9	15213.0
42.5°	14451.0	14572.0	14639.7	14705.0	14555.0
45°	13800.3	13938.2	13967.2	13945.5	12169.9
47.5°	13110.9	13260.9	13277.8	11579.7	11253.1
50°	12351.3	12540.0	12537.6	10701.6	10614.5
52.5°	11560.3	11741.8	11734.5	10014.6	9956.5
55°	10708.8	10904.8	9576.8	9298.6	9303.4
57.5°	9840.4	9980.7	8592.2	8604.3	8444.7
60°	8897.0	9030.1	7760.1	7685.1	7409.4
62.5°	7951.2	8006.8	6954.6	6589.3	6064.4
65°	6954.6	7012.6	6088.6	5007.3	4337.2
67.5°	5931.4	5989.4	5053.3	3725.2	3674.4
70°	4900.9	4426.7	3834.1	3103.6	3127.7
72.5°	3884.9	3401.1	2506.1	2404.5	1736.8
75°	2929.4	2566.5	1947.3	1308.7	1272.4
77.5°	2039.2	1768.3	1042.6	892.6	834.5
80°	1265.1	887.8	624.1	553.9	532.2
82.5°	641.0	510.4	338.7	338.7	338.7
85°	261.3	186.3	191.1	208.0	210.5
87.5°	55.6	75.0	91.9	94.3	91.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)