

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-N-CLI-UNV-L740-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 (P23769)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-60HE-N-CLI-UNV-L740-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

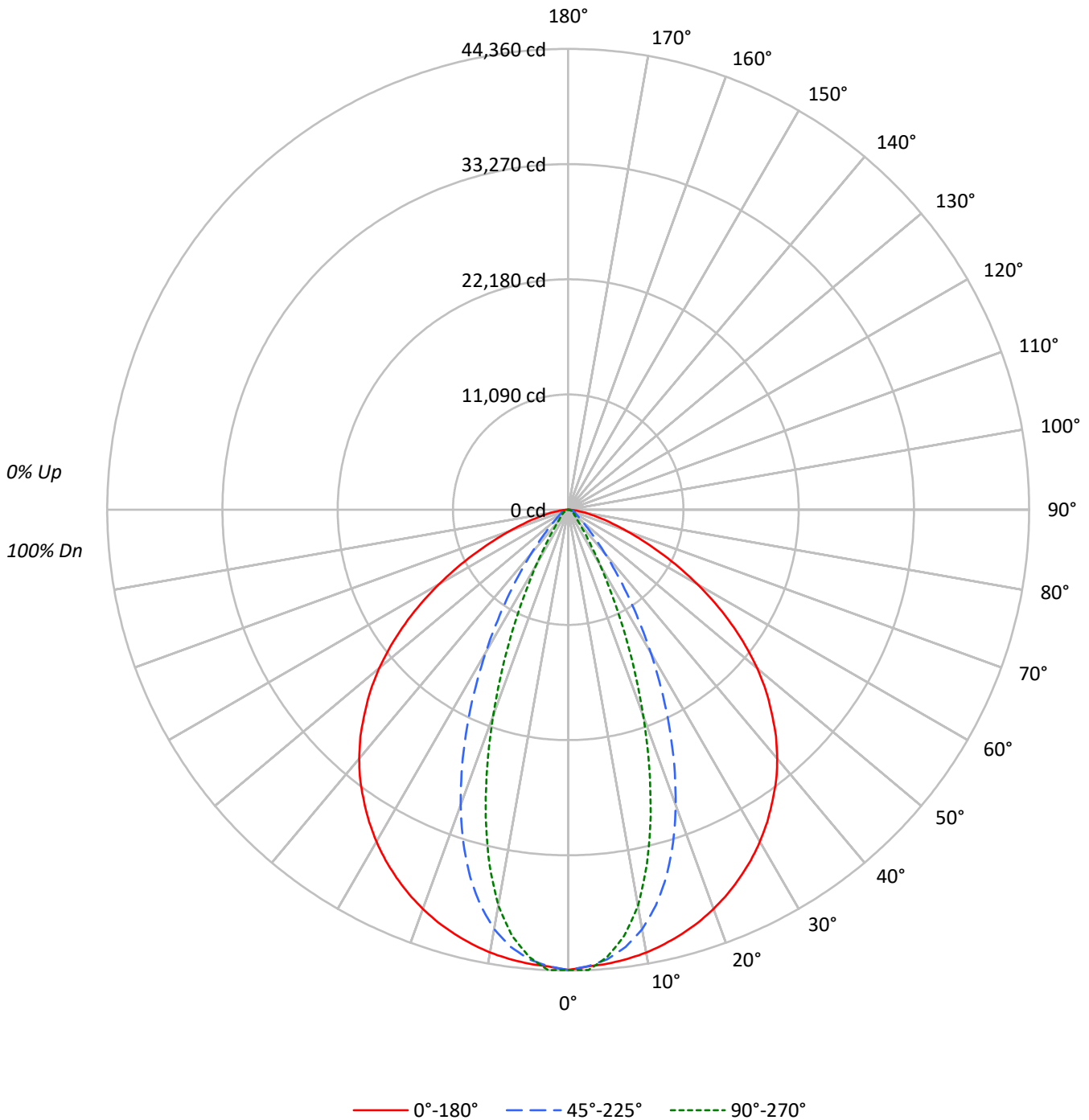
Lumens per Lamp: N/A  
Luminaire Lumens: 48498.0 lumens  
Efficiency: N/A  
Efficacy: 131.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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					100			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

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

	0°	45°	90°
0°	59604	59604	59604
5°	59246	58657	58348
10°	59147	56000	52844
15°	58909	50904	42677
20°	58555	43314	30248
25°	58031	34154	18276
30°	57327	24650	9393
35°	56291	16116	4691
40°	54957	9680	2738
45°	52673	5781	2047
50°	49680	3780	1719
55°	44964	2868	1500
60°	38639	2442	1369
65°	31081	2229	1293
70°	23416	2386	1285
75°	17224	2268	1322
80°	12601	2260	1447
85°	9437	2737	1873



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4079.7	8.4
10°-20°	10149.5	20.9
20°-30°	11242.1	23.2
30°-40°	9006.9	18.6
40°-50°	6429.8	13.3
50°-60°	4129.9	8.5
60°-70°	2238.1	4.6
70°-80°	956.6	2.0
80°-90°	265.3	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°	25471.3	52.5
0°-40°	34478.2	71.1
0°-60°	45037.9	92.9
0°-90°	48498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	48498.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	44299	44299	44299	44299	44299	
5°	43865	44029	43429	43291	43200	###
15°	42290	40968	36544	32295	30638	11932
25°	39089	34467	23006	14989	12310	18008
35°	34271	24789	9811	3957	2856	21428
45°	27682	14310	3038	1293	1076	21337
55°	19168	6398	1223	751	639	17082
65°	9762	2627	700	483	406	9776
75°	3313	961	436	303	254	3681
85°	611	254	177	147	121	747
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	44299.4	44299.4	44299.4	44299.4	44299.4
2.5°	44007.8	44283.1	43986.8	44171.1	44360.1
5°	43865.4	44028.8	43429.1	43291.4	43200.4
7.5°	43618.1	43571.4	42444.5	41714.2	41361.8
10°	43291.4	42913.5	40988.5	39383.2	38678.6
12.5°	42824.8	42045.5	39016.9	36198.3	35003.7
15°	42290.5	40967.5	36543.6	32294.8	30638.1
17.5°	41651.2	39707.5	33587.4	28108.9	25922.6
20°	40895.2	38186.3	30250.8	23661.7	21125.4
22.5°	40050.5	36431.6	26678.6	19228.5	16507.9
25°	39089.2	34467.0	23006.0	14988.9	12310.3
27.5°	38050.9	32285.4	19354.5	11199.7	8756.8
30°	36898.3	29924.2	15866.2	8075.4	6045.5
32.5°	35640.7	27413.6	12625.3	5679.2	4134.6
35°	34271.0	24788.6	9811.4	3957.2	2855.9
37.5°	32868.7	22110.0	7410.5	2797.6	2048.6
40°	31289.1	19440.8	5511.2	2048.6	1558.6
42.5°	29592.8	16822.9	4078.6	1577.3	1262.3
45°	27681.9	14309.9	3037.9	1292.6	1075.6
47.5°	25829.3	11967.3	2307.6	1101.3	935.6
50°	23734.0	9853.4	1805.9	961.3	821.3
52.5°	21510.4	7993.8	1465.3	847.0	723.3
55°	19167.8	6397.8	1222.6	751.3	639.3
57.5°	16794.9	5067.9	1045.3	669.6	569.3
60°	14358.9	4052.9	907.6	599.6	508.7
62.5°	11981.3	3240.9	793.3	539.0	455.0
65°	9762.4	2627.3	700.0	483.0	406.0
67.5°	7711.4	2076.6	653.3	434.0	366.3
70°	5952.2	1617.0	606.6	387.3	326.7
72.5°	4510.2	1241.3	536.7	345.3	289.3
75°	3313.2	961.3	436.3	303.3	254.3
77.5°	2370.6	739.6	354.7	263.7	219.3
80°	1626.3	550.7	291.7	226.3	186.7
82.5°	1057.0	389.7	235.7	186.7	154.0
85°	611.3	254.3	177.3	147.0	121.3
87.5°	263.7	140.0	121.3	109.7	93.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)