

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-AI-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 (P23765)  
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-AI-UNV-L740-ED4-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

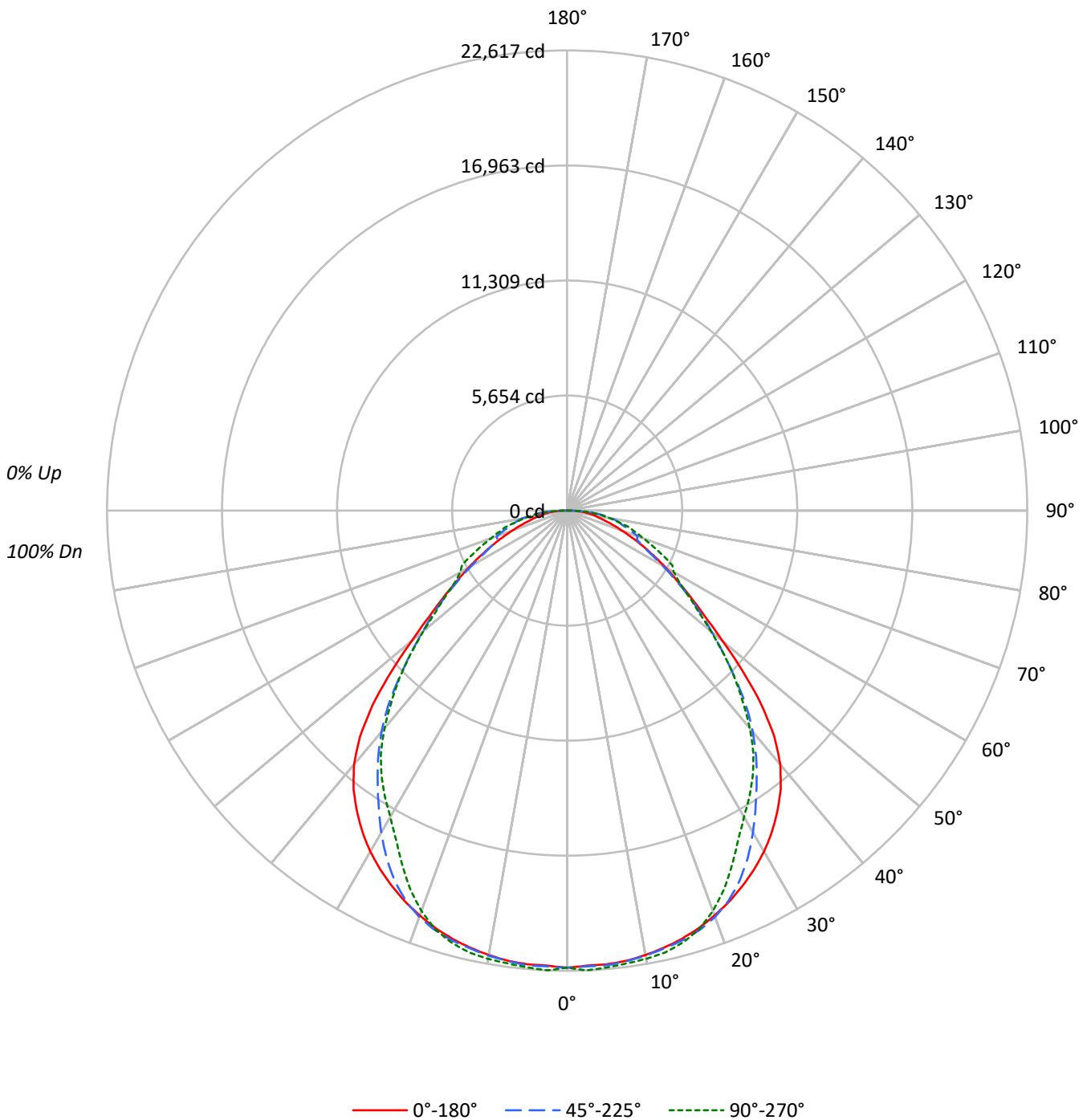
Lumens per Lamp: N/A  
Luminaire Lumens: 52003.0 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58		68	62	57		66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45		56	50	45		55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41		52	45	40		50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37		48	41	36		46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40	34	30	29

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

	0°	45°	90°
0°	30229	30229	30229
5°	30228	30293	30441
10°	30303	30341	30563
15°	30349	30462	30611
20°	30318	30431	29980
25°	30242	29789	28493
30°	30064	28384	27000
35°	29611	26677	26121
40°	28621	24943	24532
45°	25725	22273	22191
50°	20865	19400	19267
55°	17325	17003	16997
60°	15000	14562	16280
65°	13000	12919	16410
70°	11209	14492	15643
75°	10051	14852	16307
80°	10448	17485	16361
85°	11861	20148	18695



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2139.1	4.1
10°-20°	6178.0	11.9
20°-30°	9175.7	17.6
30°-40°	10416.9	20.0
40°-50°	9312.3	17.9
50°-60°	6438.5	12.4
60°-70°	4248.5	8.2
70°-80°	2866.3	5.5
80°-90°	1227.6	2.4
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°	17492.8	33.6
0°-40°	27909.8	53.7
0°-60°	43660.6	84.0
0°-90°	52003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	52003.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22467	22467	22467	22467	22467	
5°	22380	22518	22429	22520	22538	###
15°	21788	21892	21869	21991	21976	6150
25°	20371	20564	20065	19467	19193	9386
35°	18028	17648	16242	16005	15903	11242
45°	13519	12374	11705	11794	11662	10281
55°	7386	6742	7248	7146	7246	6708
65°	4083	3625	4058	4745	5154	4075
75°	1934	2432	2857	3053	3137	2112
85°	768	1068	1305	1313	1211	801
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22466.9	22466.9	22466.9	22466.9	22466.9
2.5°	22390.6	22530.5	22426.2	22522.9	22617.0
5°	22380.4	22517.8	22428.7	22520.3	22538.1
7.5°	22316.8	22444.0	22339.7	22428.7	22449.1
10°	22179.4	22329.5	22207.4	22344.8	22370.2
12.5°	22001.3	22154.0	22047.1	22235.4	22245.6
15°	21787.6	21891.9	21869.0	21991.2	21975.9
17.5°	21518.0	21637.5	21619.7	21650.2	21579.0
20°	21174.5	21309.3	21253.4	21113.4	20937.9
22.5°	20805.6	20968.4	20747.1	20393.5	20146.7
25°	20370.6	20563.9	20065.3	19467.4	19192.7
27.5°	19889.7	20062.7	19233.4	18500.7	18215.7
30°	19350.4	19424.2	18269.1	17572.1	17378.7
32.5°	18727.1	18620.2	17238.8	16778.3	16666.4
35°	18027.5	17648.4	16241.5	16004.9	15903.1
37.5°	17238.8	16544.3	15256.9	15147.5	15040.7
40°	16294.9	15269.7	14201.1	14129.9	13967.1
42.5°	15076.3	13883.1	13028.3	12944.4	12799.3
45°	13519.3	12374.5	11705.4	11794.4	11662.1
47.5°	11728.3	10860.7	10435.9	10680.1	10435.9
50°	9967.8	9385.2	9268.1	9489.5	9204.5
52.5°	8525.3	8001.2	8242.9	8281.0	8110.6
55°	7385.5	6741.9	7248.1	7146.4	7245.6
57.5°	6393.3	5673.3	6296.6	6179.6	6520.5
60°	5574.1	4765.1	5411.3	5385.8	6049.9
62.5°	4770.2	4124.0	4643.0	5017.0	5833.6
65°	4083.3	3625.3	4057.8	4744.7	5154.3
67.5°	3424.4	3251.4	3711.8	4093.4	4541.2
70°	2849.4	2938.4	3683.8	3612.6	3976.4
72.5°	2366.0	2668.8	3251.4	3264.1	3521.0
75°	1933.5	2432.2	2857.0	3052.9	3136.9
77.5°	1607.9	2205.7	2579.7	2648.4	2567.0
80°	1348.4	1943.7	2256.6	2226.1	2111.6
82.5°	1088.9	1473.0	1778.3	1806.3	1671.5
85°	768.3	1068.5	1305.1	1312.8	1211.0
87.5°	412.1	658.9	791.2	814.1	753.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)