

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-LD5-30SE-W-CLWG-UNV-L850-ED3-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30SE-W-CLWG-UNV-L850-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

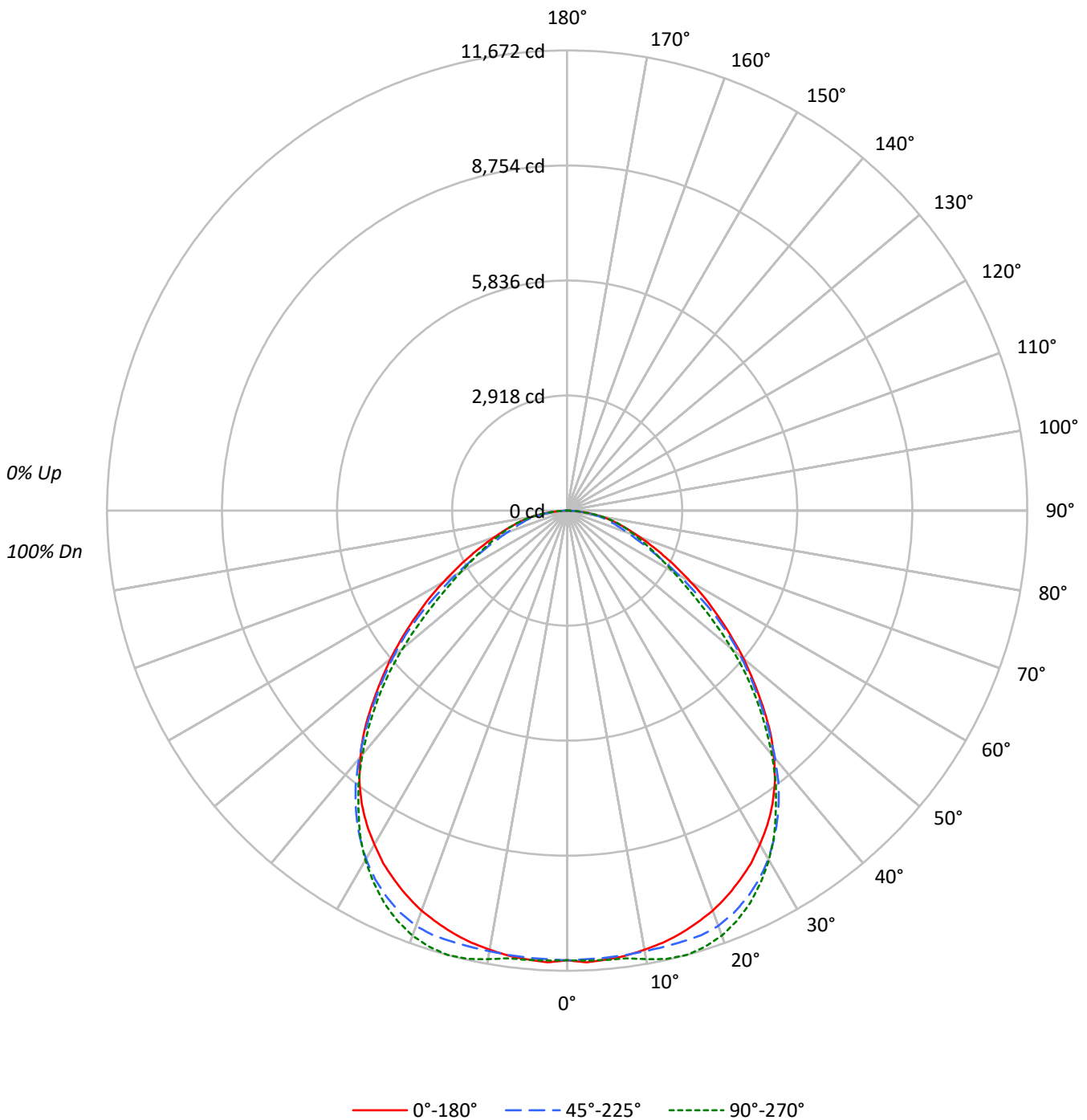
Lumens per Lamp: N/A  
Luminaire Lumens: 28449.0 lumens  
Efficiency: N/A  
Efficacy: 147.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

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

	0°	45°	90°
0°	15348	15348	15348
5°	15439	15375	15451
10°	15452	15505	15782
15°	15472	15763	16259
20°	15461	16051	16426
25°	15367	16066	16302
30°	15190	15853	15903
35°	14919	15339	15156
40°	14330	14418	14191
45°	13353	13213	12944
50°	12225	12028	11412
55°	10981	10574	9649
60°	9739	8749	8329
65°	8580	7269	7559
70°	7674	6308	7200
75°	7189	6134	7281
80°	6999	6201	6931
85°	5587	4906	5087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1086.7	3.8
10°-20°	3200.8	11.3
20°-30°	4924.1	17.3
30°-40°	5746.7	20.2
40°-50°	5340.2	18.8
50°-60°	3958.3	13.9
60°-70°	2419.8	8.5
70°-80°	1378.3	4.8
80°-90°	394.2	1.4
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°	9211.5	32.4
0°-40°	14958.2	52.6
0°-60°	24256.7	85.3
0°-90°	28449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28449.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11407	11407	11407	11407	11407	
5°	11431	11378	11384	11375	11440	###
15°	11107	11101	11316	11540	11672	3135
25°	10351	10430	10822	10913	10981	4768
35°	9083	9153	9339	9262	9227	5659
45°	7017	7058	6944	6835	6803	5407
55°	4681	4564	4508	4187	4113	4201
65°	2695	2448	2283	2345	2374	2697
75°	1383	1298	1180	1345	1400	1480
85°	362	353	318	330	330	417
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11407.2	11407.2	11407.2	11407.2	11407.2
2.5°	11469.0	11404.3	11392.5	11366.0	11424.9
5°	11430.8	11377.8	11383.7	11374.9	11439.6
7.5°	11386.6	11348.4	11371.9	11369.0	11454.3
10°	11310.1	11289.5	11348.4	11413.1	11551.4
12.5°	11224.8	11204.2	11333.7	11498.4	11648.5
15°	11107.1	11101.2	11316.0	11539.6	11672.0
17.5°	10960.0	10968.8	11295.4	11486.7	11604.4
20°	10798.2	10812.9	11210.1	11366.0	11472.0
22.5°	10589.3	10639.3	11045.3	11174.8	11257.2
25°	10350.9	10430.4	10821.7	10912.9	10980.6
27.5°	10095.0	10174.4	10545.1	10592.2	10630.5
30°	9777.2	9889.0	10203.8	10209.7	10236.2
32.5°	9453.6	9553.6	9794.9	9768.4	9774.3
35°	9082.8	9153.4	9338.8	9262.3	9227.0
37.5°	8656.2	8694.4	8812.1	8697.4	8691.5
40°	8158.9	8209.0	8209.0	8050.1	8079.5
42.5°	7629.3	7647.0	7573.4	7423.4	7446.9
45°	7017.3	7058.5	6943.8	6834.9	6802.6
47.5°	6411.2	6452.4	6331.8	6205.3	6149.4
50°	5840.4	5819.8	5746.3	5531.5	5452.0
52.5°	5249.0	5184.3	5154.9	4840.1	4748.8
55°	4681.2	4563.5	4507.6	4186.9	4113.3
57.5°	4154.5	3942.7	3836.7	3586.6	3557.2
60°	3619.0	3380.7	3251.2	3089.4	3095.3
62.5°	3133.5	2883.4	2727.5	2680.4	2701.0
65°	2695.1	2448.0	2283.2	2345.0	2374.4
67.5°	2297.9	2094.9	1909.5	2053.7	2083.1
70°	1950.7	1788.9	1603.5	1815.4	1830.1
72.5°	1662.4	1530.0	1374.0	1574.1	1606.5
75°	1382.9	1297.5	1179.9	1344.6	1400.5
77.5°	1138.7	1071.0	1003.3	1103.4	1165.1
80°	903.3	835.6	800.3	853.3	894.5
82.5°	638.5	594.3	559.0	597.3	617.9
85°	361.9	353.1	317.8	329.5	329.5
87.5°	82.4	94.2	105.9	97.1	82.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)