

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-WG-UNV-L740-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 (P33336)  
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-WG-UNV-L740-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

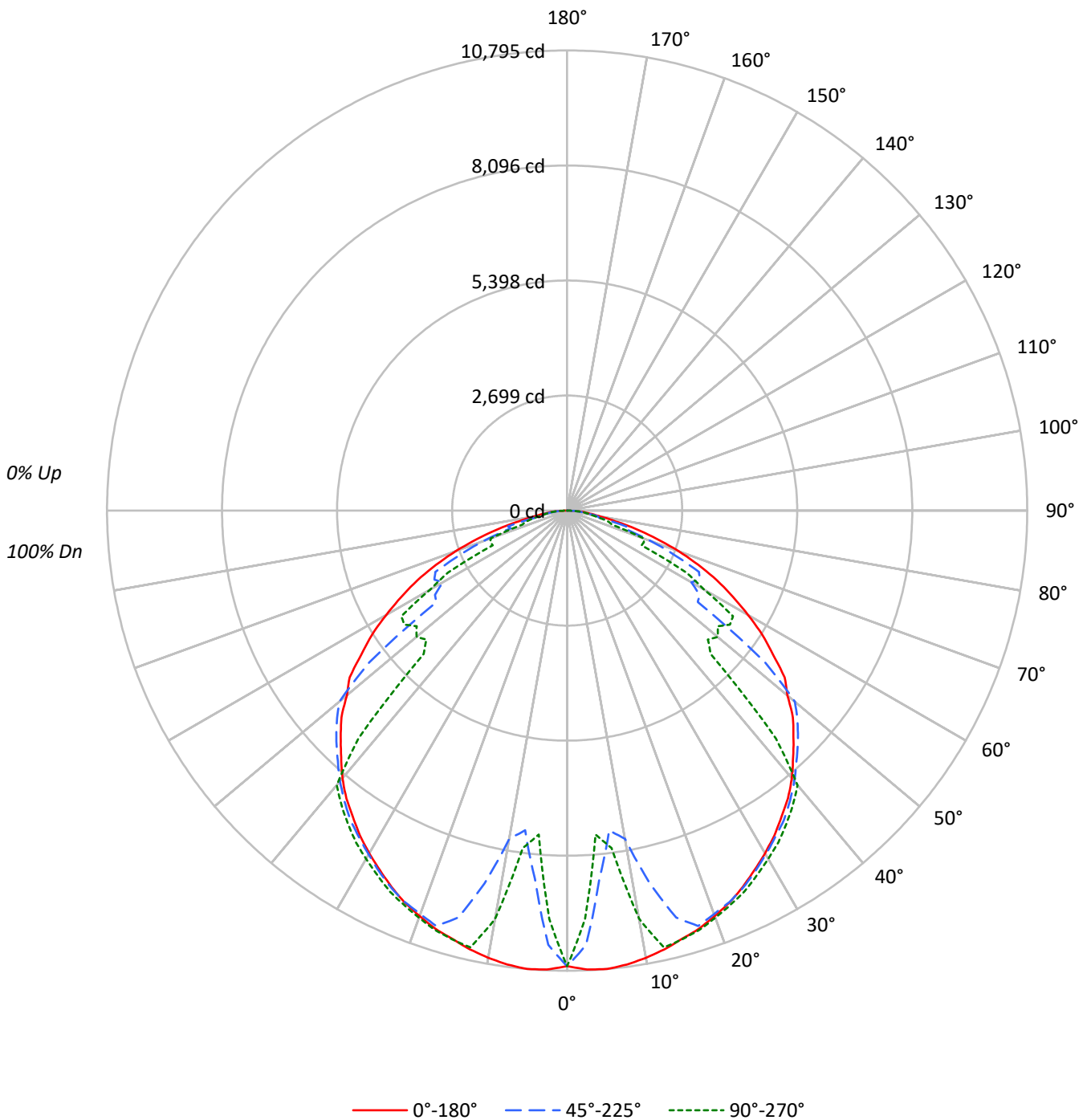
Lumens per Lamp: N/A  
Luminaire Lumens: 28315.0 lumens  
Efficiency: N/A  
Efficacy: 146.7 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 193  
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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	14381	14381	14381
5°	14580	11713	10302
10°	14555	10683	13286
15°	14491	13768	14503
20°	14491	14425	14553
25°	14465	14497	14630
30°	14423	14471	14657
35°	14400	14560	14730
40°	14402	14559	14768
45°	14289	14569	9054
50°	14127	14598	9649
55°	13830	8778	10937
60°	13192	9048	10015
65°	12361	10864	6128
70°	10915	8230	7511
75°	8697	7481	5209
80°	5991	5407	4476
85°	5741	4991	4735



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	854.7	3.0
10°-20°	2677.5	9.5
20°-30°	4405.1	15.6
30°-40°	5538.9	19.6
40°-50°	5432.3	19.2
50°-60°	4500.9	15.9
60°-70°	3174.6	11.2
70°-80°	1385.0	4.9
80°-90°	346.0	1.2
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°	7937.3	28.0
0°-40°	13476.2	47.6
0°-60°	23409.4	82.7
0°-90°	28315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10688	10688	10688	10688	10688	
5°	10795	10048	8673	7864	7627	###
15°	10403	7225	9884	10444	10412	2942
25°	9744	8915	9765	9830	9855	4491
35°	8767	8762	8864	8923	8968	5493
45°	7510	7533	7657	6781	4758	5797
55°	5896	6088	3742	4254	4662	5275
65°	3883	4111	3412	2625	1925	3818
75°	1673	1640	1439	941	1002	1794
85°	372	331	323	309	307	386
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10688.0	10688.0	10688.0	10688.0	10688.0
2.5°	10776.2	10552.5	10197.2	9749.9	9591.5
5°	10795.3	10047.7	8672.6	7863.6	7627.2
7.5°	10740.4	9131.4	7560.7	7730.7	7981.2
10°	10653.5	8326.2	7818.9	9199.1	9724.4
12.5°	10542.3	7610.5	8957.6	10391.5	10496.3
15°	10403.0	7224.6	9884.1	10443.9	10411.9
17.5°	10285.4	7450.8	10216.4	10339.1	10316.1
20°	10120.6	7901.9	10074.5	10173.0	10164.0
22.5°	9954.4	8436.1	9940.4	10010.6	10010.6
25°	9743.5	8915.4	9765.3	9830.4	9854.7
27.5°	9512.2	9191.4	9546.7	9600.4	9643.9
30°	9283.5	9231.1	9314.1	9383.1	9434.3
32.5°	9041.9	9021.5	9086.6	9159.5	9224.7
35°	8767.1	8762.0	8864.3	8923.1	8967.8
37.5°	8509.0	8491.1	8585.7	8667.5	8702.0
40°	8199.7	8199.7	8289.2	8372.2	8408.0
42.5°	7847.0	7896.8	7965.8	8051.5	7251.4
45°	7509.6	7532.6	7656.6	6781.1	4758.0
47.5°	7185.0	7214.4	7331.9	4359.3	4478.1
50°	6749.2	6882.1	6974.1	4346.5	4609.8
52.5°	6430.9	6488.5	5854.6	4303.1	4451.3
55°	5895.5	6088.4	3742.0	4254.5	4662.2
57.5°	5437.9	5578.5	3679.4	4359.3	4612.3
60°	4902.4	5117.1	3362.4	4205.9	3721.6
62.5°	4388.7	4593.2	3510.7	3310.0	3151.6
65°	3882.6	4111.4	3412.3	2625.0	1924.7
67.5°	3327.9	3114.5	2722.2	1849.3	1946.4
70°	2774.6	2175.2	2092.1	2067.8	1909.3
72.5°	2205.8	1587.3	1389.2	1551.5	1110.6
75°	1672.9	1639.7	1439.0	940.6	1002.0
77.5°	1160.4	1183.4	770.6	917.6	761.7
80°	773.2	669.7	697.8	585.3	577.7
82.5°	535.5	547.0	458.8	444.7	451.1
85°	371.9	331.0	323.3	309.3	306.7
87.5°	124.0	144.4	134.2	121.4	129.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)