

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-LD5-30HE-W-UNV-L740-ED2-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 (P23760)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-W-UNV-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

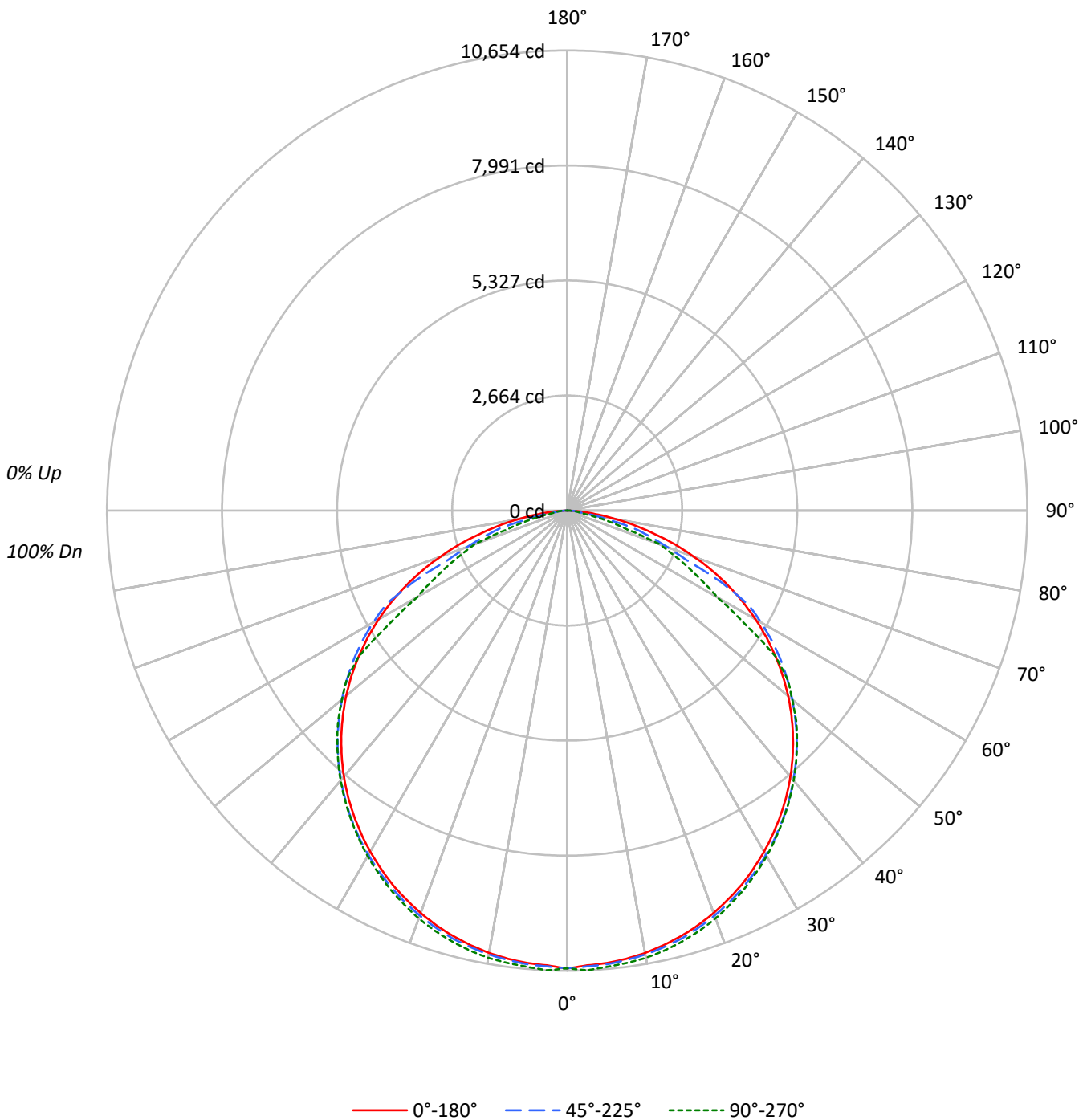
Lumens per Lamp: N/A  
Luminaire Lumens: 30595.0 lumens  
Efficiency: N/A  
Efficacy: 170.0 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 180  
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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	14259	14259	14259
5°	14201	14240	14321
10°	14208	14259	14366
15°	14205	14281	14380
20°	14197	14288	14388
25°	14192	14294	14373
30°	14167	14306	14359
35°	14150	14312	14331
40°	14124	14312	14334
45°	14071	14305	14322
50°	13987	14245	14242
55°	13824	14169	13818
60°	13567	13960	10811
65°	13114	12564	9741
70°	12286	9667	8977
75°	10879	8428	5595
80°	8959	4962	2500
85°	5903	3040	3276



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1005.7	3.3
10°-20°	2901.5	9.5
20°-30°	4448.3	14.5
30°-40°	5455.4	17.8
40°-50°	5792.7	18.9
50°-60°	5291.0	17.3
60°-70°	3684.6	12.0
70°-80°	1718.5	5.6
80°-90°	297.3	1.0
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°	8355.5	27.3
0°-40°	13810.9	45.1
0°-60°	24894.6	81.4
0°-90°	30595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30595.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10598	10598	10598	10598	10598	
5°	10514	10588	10543	10594	10603	###
15°	10198	10269	10252	10314	10323	2880
25°	9560	9644	9628	9700	9682	4405
35°	8614	8714	8714	8772	8725	5391
45°	7395	7506	7518	7566	7527	5703
55°	5893	6011	6040	6050	5890	5263
65°	4119	4246	3946	3138	3060	4064
75°	2093	2225	1621	1123	1076	2237
85°	382	252	197	211	212	494
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10597.8	10597.8	10597.8	10597.8	10597.8
2.5°	10541.9	10609.3	10564.8	10613.1	10653.7
5°	10514.0	10587.7	10543.2	10594.0	10602.9
7.5°	10468.2	10538.1	10497.5	10553.4	10567.3
10°	10399.6	10468.2	10436.5	10502.5	10515.2
12.5°	10306.9	10376.8	10352.6	10425.0	10433.9
15°	10197.6	10268.8	10252.2	10314.5	10323.4
17.5°	10069.3	10143.0	10123.9	10190.0	10196.3
20°	9915.5	9995.6	9979.1	10056.6	10048.9
22.5°	9742.7	9827.9	9815.2	9892.7	9869.8
25°	9559.8	9643.6	9628.4	9699.5	9681.7
27.5°	9345.0	9437.8	9423.8	9492.4	9464.5
30°	9118.9	9212.9	9207.8	9270.1	9242.1
32.5°	8874.9	8975.3	8970.2	9031.2	8988.0
35°	8614.5	8713.6	8713.6	8772.0	8725.0
37.5°	8338.8	8439.1	8440.4	8496.3	8451.8
40°	8041.4	8141.8	8148.2	8201.5	8160.9
42.5°	7728.9	7838.2	7843.2	7891.5	7853.4
45°	7394.7	7506.5	7518.0	7566.2	7526.9
47.5°	7045.3	7158.4	7168.6	7220.7	7192.7
50°	6681.9	6791.2	6805.2	6848.4	6803.9
52.5°	6298.2	6410.0	6429.1	6455.8	6435.4
55°	5892.9	6011.1	6040.3	6050.5	5890.4
57.5°	5473.6	5594.3	5622.3	5388.5	4873.9
60°	5041.6	5161.1	5187.7	4383.5	4017.5
62.5°	4591.8	4708.7	4738.0	3632.6	3515.7
65°	4119.2	4246.2	3946.4	3138.3	3059.5
67.5°	3633.8	3764.7	2984.6	2689.8	2642.8
70°	3123.1	3255.2	2457.3	2293.4	2281.9
72.5°	2632.6	2730.5	2016.4	1738.1	1463.7
75°	2092.6	2224.8	1621.2	1123.2	1076.2
77.5°	1622.5	1402.7	978.3	823.3	649.3
80°	1156.2	937.7	640.4	341.8	322.7
82.5°	733.1	612.4	251.6	257.9	269.4
85°	382.4	251.6	196.9	210.9	212.2
87.5°	123.2	108.0	118.2	116.9	115.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)