

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-AWG-UNV-L750-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 (P23764)
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-AWG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

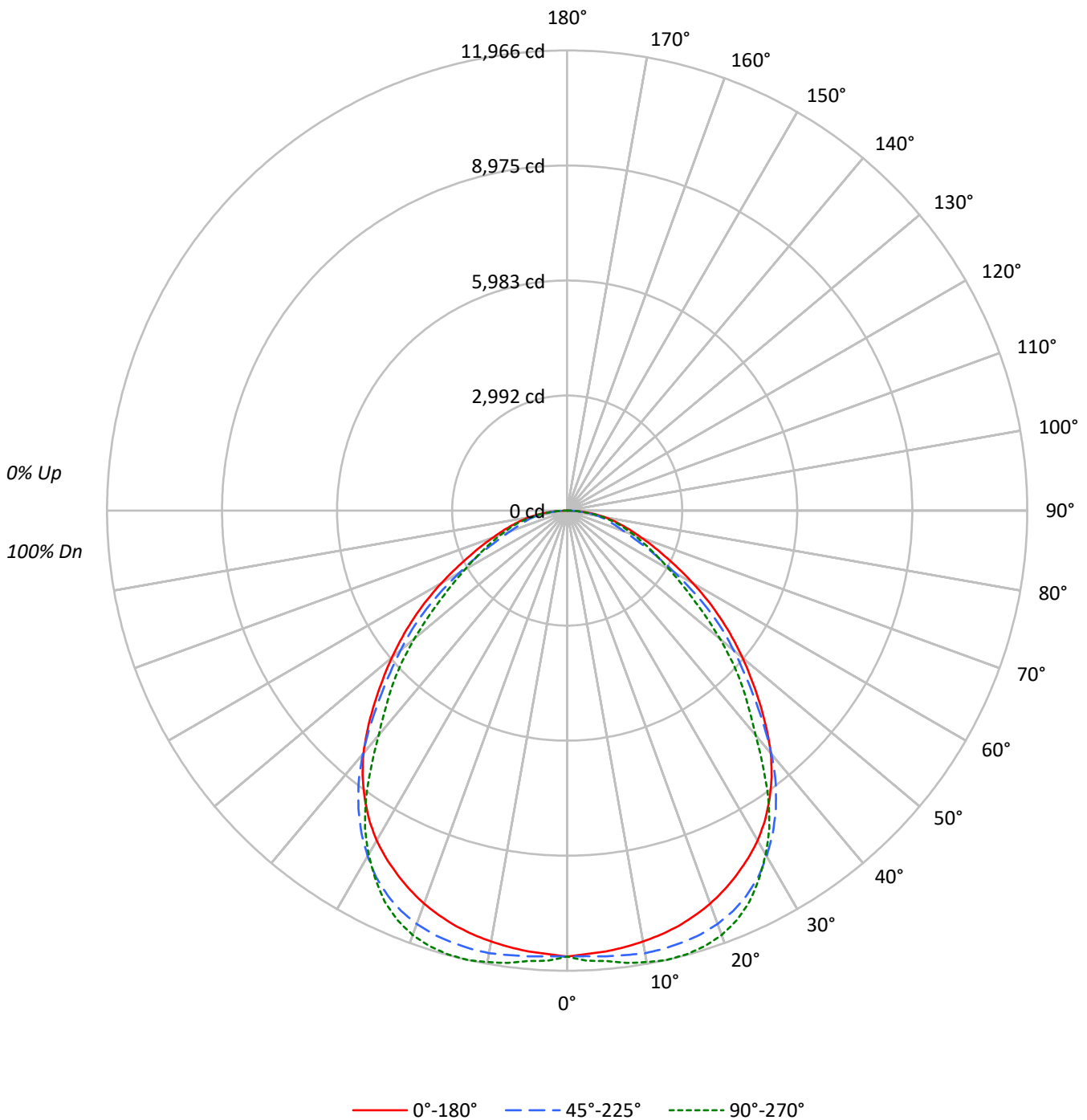
Lumens per Lamp: N/A
Luminaire Lumens: 28747.0 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15603	15603	15603
5°	15542	15716	15876
10°	15547	15969	16290
15°	15576	16190	16645
20°	15573	16375	16816
25°	15506	16397	16663
30°	15391	16124	16039
35°	15065	15541	14975
40°	14475	14517	13387
45°	13473	13088	12238
50°	12454	11835	10845
55°	11401	10488	9358
60°	10166	8706	8264
65°	8916	7165	7593
70°	8050	6171	7230
75°	7694	6049	7210
80°	7756	6404	7034
85°	6870	5866	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1113.9	3.9
10°-20°	3282.8	11.4
20°-30°	5035.3	17.5
30°-40°	5791.3	20.1
40°-50°	5282.1	18.4
50°-60°	3959.0	13.8
60°-70°	2435.2	8.5
70°-80°	1395.5	4.9
80°-90°	451.8	1.6
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
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0°-30°	9432.0	32.8
0°-40°	15223.3	53.0
0°-60°	24464.4	85.1
0°-90°	28747.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28747.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11596	11596	11596	11596	11596	
5°	11508	11624	11636	11732	11754	###
15°	11182	11431	11623	11871	11950	3157
25°	10444	10745	11045	11215	11224	4813
35°	9172	9350	9461	9306	9117	5720
45°	7081	7235	6878	6523	6432	5464
55°	4860	4680	4471	4076	3989	4342
65°	2800	2505	2250	2320	2385	2816
75°	1480	1326	1164	1332	1387	1583
85°	445	420	380	401	398	496
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11596.3	11596.3	11596.3	11596.3	11596.3
2.5°	11541.6	11624.4	11597.8	11665.8	11716.1
5°	11507.6	11624.4	11636.2	11732.3	11754.5
7.5°	11449.9	11602.2	11655.4	11825.5	11863.9
10°	11379.0	11562.3	11688.0	11871.3	11923.1
12.5°	11293.2	11506.1	11665.8	11892.0	11965.9
15°	11182.3	11430.7	11622.9	11871.3	11949.7
17.5°	11041.8	11330.2	11554.9	11798.9	11880.2
20°	10876.2	11180.8	11436.6	11686.5	11744.2
22.5°	10676.6	10982.7	11274.0	11498.7	11529.8
25°	10444.5	10744.7	11044.8	11214.8	11223.7
27.5°	10191.7	10471.1	10752.0	10843.7	10803.8
30°	9906.3	10156.2	10378.0	10397.2	10323.3
32.5°	9567.7	9792.5	9950.7	9909.3	9785.1
35°	9171.5	9350.4	9461.3	9306.0	9116.8
37.5°	8736.8	8871.3	8908.3	8571.2	8355.3
40°	8241.5	8356.8	8265.1	7796.4	7621.9
42.5°	7670.7	7803.8	7568.7	7105.9	6999.5
45°	7080.8	7234.6	6878.2	6523.4	6431.7
47.5°	6502.7	6643.1	6239.5	5954.1	5818.1
50°	5949.7	6010.3	5654.0	5331.7	5180.9
52.5°	5405.6	5345.0	5092.1	4691.5	4558.4
55°	4860.0	4679.6	4471.1	4076.4	3989.1
57.5°	4312.9	4061.6	3833.9	3530.8	3496.8
60°	3777.7	3468.7	3235.1	3054.7	3071.0
62.5°	3267.6	2952.7	2702.8	2645.1	2707.2
65°	2800.4	2504.7	2250.4	2319.9	2384.9
67.5°	2411.5	2127.6	1868.9	2046.3	2098.1
70°	2046.3	1817.1	1568.7	1797.9	1837.8
72.5°	1755.0	1559.9	1344.0	1567.3	1601.3
75°	1480.0	1326.3	1163.6	1332.2	1386.9
77.5°	1240.5	1113.4	1002.5	1101.5	1160.7
80°	1001.0	893.0	826.5	870.9	907.8
82.5°	733.4	663.9	615.1	634.3	640.2
85°	445.0	419.9	380.0	400.7	397.7
87.5°	146.4	167.1	175.9	158.2	149.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)