

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-N-CLWG-UNV-L840-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-CLWG-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

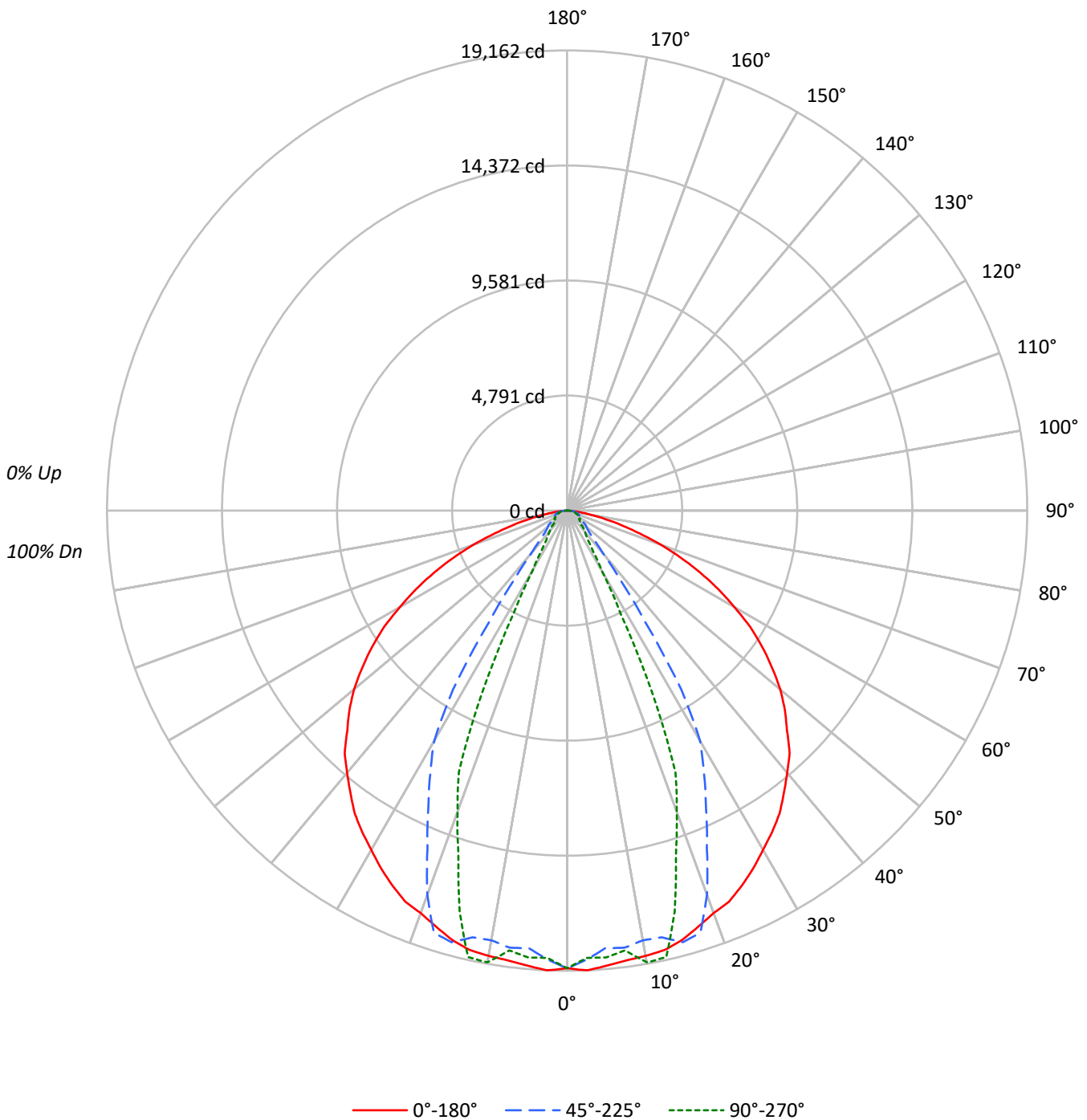
Lumens per Lamp: N/A
Luminaire Lumens: 25621.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25643	25643	25643
5°	25685	24707	25227
10°	25722	24826	26100
15°	25780	25914	24085
20°	25536	24373	19117
25°	25572	20319	12488
30°	25343	17213	4486
35°	25316	9325	2523
40°	25030	4065	1976
45°	24643	2512	1549
50°	24259	2188	1463
55°	23305	1898	1431
60°	21623	1700	1538
65°	19436	1922	1681
70°	16300	2067	1733
75°	12186	2357	1876
80°	7653	2737	2139
85°	5096	3430	3132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1766.4	6.9
10°-20°	4988.0	19.5
20°-30°	6107.9	23.8
30°-40°	4796.6	18.7
40°-50°	3557.0	13.9
50°-60°	2165.4	8.5
60°-70°	1297.1	5.1
70°-80°	711.7	2.8
80°-90°	230.8	0.9
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°	12862.4	50.2
0°-40°	17659.0	68.9
0°-60°	23381.4	91.3
0°-90°	25621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19058	19058	19058	19058	19058	
5°	19017	18500	18293	18494	18678	###
15°	18507	18000	18604	17852	17291	5211
25°	17225	17279	13687	10735	8412	7929
35°	15413	14021	5677	1900	1536	9617
45°	12951	9299	1320	1001	814	10015
55°	9935	2562	809	685	610	8841
65°	6105	755	604	568	528	6031
75°	2344	476	453	394	361	2538
85°	330	260	222	204	203	403
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19058.2	19058.2	19058.2	19058.2	19058.2
2.5°	19162.2	18904.1	18706.3	18595.8	18640.7
5°	19017.1	18499.5	18292.7	18494.3	18678.0
7.5°	18891.2	18121.8	18355.6	18373.6	18469.9
10°	18827.0	18085.9	18170.7	18570.1	19103.1
12.5°	18742.2	18169.4	18198.9	18743.5	19044.1
15°	18507.2	17999.8	18603.5	17852.1	17290.8
17.5°	18164.2	17604.2	18434.0	15815.0	15052.1
20°	17834.1	17173.9	17022.4	14087.5	13351.5
22.5°	17620.9	17108.4	15206.2	12552.6	11792.2
25°	17225.3	17279.3	13686.8	10735.2	8411.6
27.5°	16789.9	16877.2	12343.2	7159.3	4819.1
30°	16312.1	16412.3	11079.4	4230.9	2887.4
32.5°	15879.3	15314.1	8848.4	2639.5	2007.5
35°	15413.0	14020.7	5677.1	1899.7	1536.2
37.5°	14826.0	12661.8	3593.8	1502.8	1289.6
40°	14250.6	11441.6	2314.5	1283.1	1125.1
42.5°	13712.4	10435.9	1683.9	1121.3	1016.0
45°	12950.8	9299.2	1320.4	1000.6	814.3
47.5°	12291.9	7966.0	1154.7	846.4	702.6
50°	11589.3	6090.7	1045.5	752.7	698.7
52.5°	10755.7	3984.3	965.9	720.6	652.5
55°	9935.0	2562.4	809.2	684.6	610.1
57.5°	9048.7	1624.8	714.1	664.0	637.1
60°	8035.3	1095.6	631.9	629.4	571.6
62.5°	7097.7	900.4	610.1	603.7	540.7
65°	6104.8	755.2	603.7	567.7	527.9
67.5°	5113.3	647.3	545.9	518.9	484.2
70°	4143.5	592.1	525.3	513.8	440.6
72.5°	3146.8	488.1	466.2	435.4	366.1
75°	2344.1	476.5	453.4	394.3	360.9
77.5°	1586.3	439.3	412.3	353.2	326.2
80°	987.7	403.3	353.2	309.5	276.1
82.5°	587.0	336.5	290.3	255.6	233.8
85°	330.1	259.5	222.2	204.2	202.9
87.5°	70.6	93.8	74.5	70.6	50.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)