

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-N-CLWG-UNV-L850-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-CLWG-UNV-L850-ED2-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

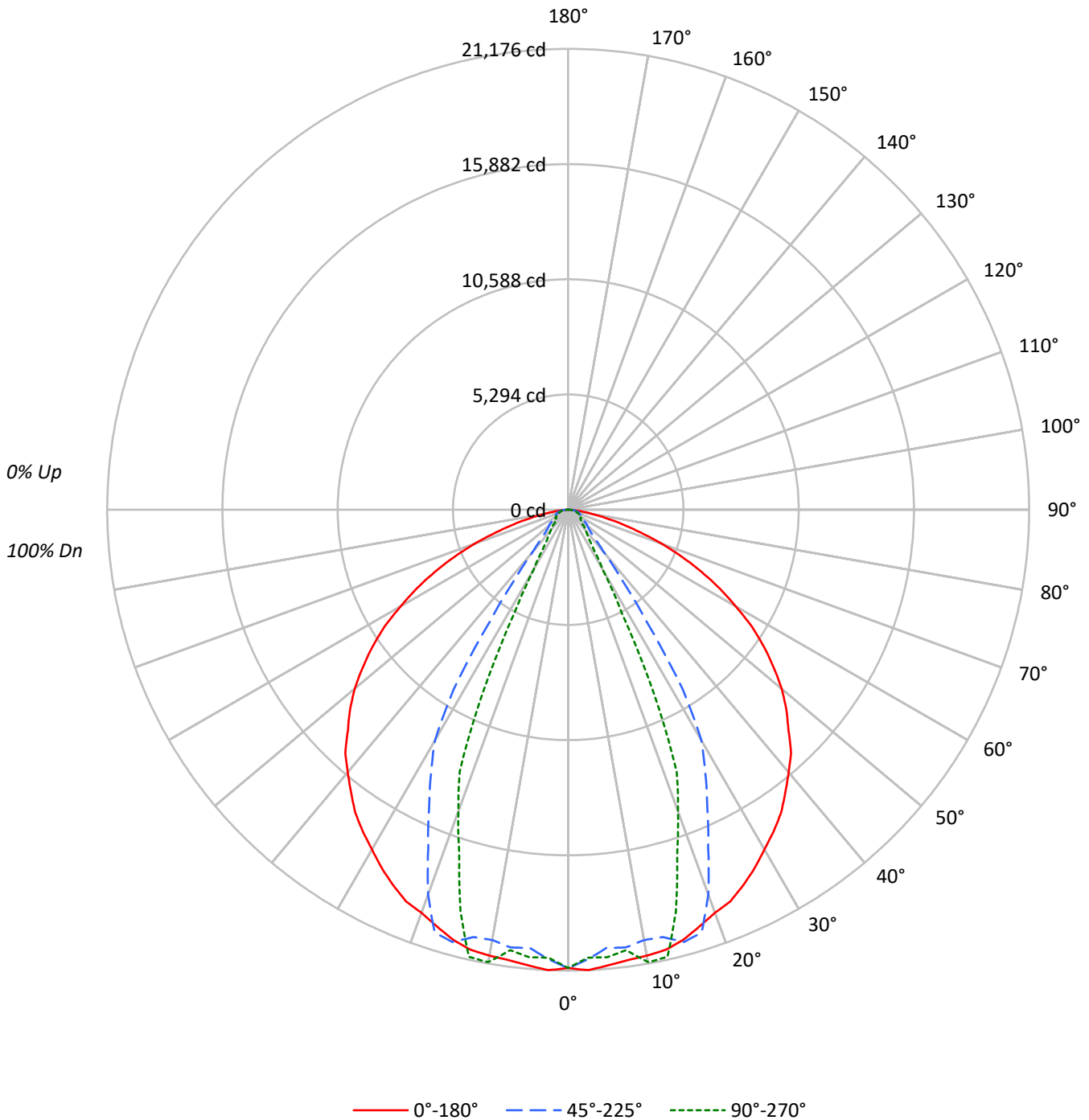
Lumens per Lamp: N/A
Luminaire Lumens: 28314.0 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
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°	28338	28338	28338
5°	28385	27304	27879
10°	28426	27435	28843
15°	28489	28638	26617
20°	28220	26935	21127
25°	28260	22455	13800
30°	28007	19023	4958
35°	27978	10305	2788
40°	27661	4493	2184
45°	27233	2777	1712
50°	26809	2418	1616
55°	25755	2098	1582
60°	23896	1879	1700
65°	21479	2124	1857
70°	18014	2284	1915
75°	13466	2605	2074
80°	8457	3024	2365
85°	5632	3792	3463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1952.1	6.9
10°-20°	5512.3	19.5
20°-30°	6750.0	23.8
30°-40°	5300.8	18.7
40°-50°	3930.9	13.9
50°-60°	2393.0	8.5
60°-70°	1433.5	5.1
70°-80°	786.5	2.8
80°-90°	255.1	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°	14214.4	50.2
0°-40°	19515.1	68.9
0°-60°	25839.0	91.3
0°-90°	28314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21061	21061	21061	21061	21061	
5°	21016	20444	20215	20438	20641	###
15°	20452	19892	20559	19728	19108	5758
25°	19036	19096	15125	11864	9296	8763
35°	17033	15494	6274	2099	1698	10628
45°	14312	10277	1459	1106	900	11067
55°	10979	2832	894	757	674	9770
65°	6746	835	667	627	583	6665
75°	2590	527	501	436	399	2805
85°	365	287	246	226	224	445
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21061.4	21061.4	21061.4	21061.4	21061.4
2.5°	21176.3	20891.0	20672.5	20550.4	20600.1
5°	21016.0	20443.9	20215.4	20438.2	20641.2
7.5°	20876.8	20026.6	20284.9	20304.8	20411.3
10°	20805.9	19986.9	20080.6	20522.0	21111.1
12.5°	20712.2	20079.1	20111.8	20713.6	21045.8
15°	20452.4	19891.8	20558.9	19728.5	19108.2
17.5°	20073.5	19454.6	20371.5	17477.3	16634.2
20°	19708.7	18979.1	18811.6	15568.2	14754.9
22.5°	19473.0	18906.7	16804.5	13872.0	13031.7
25°	19035.9	19095.5	15125.4	11863.5	9295.8
27.5°	18554.7	18651.2	13640.6	7911.9	5325.7
30°	18026.6	18137.4	12243.9	4675.6	3190.9
32.5°	17548.3	16923.8	9778.4	2916.9	2218.6
35°	17033.1	15494.4	6273.8	2099.3	1697.6
37.5°	16384.4	13992.7	3971.5	1660.7	1425.1
40°	15748.5	12644.2	2557.8	1418.0	1243.4
42.5°	15153.7	11532.8	1860.9	1239.2	1122.8
45°	14312.0	10276.6	1459.2	1105.7	899.9
47.5°	13583.9	8803.3	1276.1	935.4	776.4
50°	12807.4	6730.9	1155.4	831.8	772.2
52.5°	11886.2	4403.0	1067.4	796.3	721.1
55°	10979.2	2831.7	894.2	756.6	674.2
57.5°	9999.8	1795.6	789.2	733.8	704.0
60°	8879.9	1210.8	698.4	695.5	631.6
62.5°	7843.7	995.0	674.2	667.1	597.6
65°	6746.5	834.6	667.1	627.4	583.4
67.5°	5650.7	715.4	603.3	573.4	535.1
70°	4579.1	654.4	580.5	567.8	486.9
72.5°	3477.6	539.4	515.2	481.2	404.5
75°	2590.4	526.6	501.1	435.8	398.9
77.5°	1753.0	485.4	455.6	390.3	360.5
80°	1091.5	445.7	390.3	342.1	305.2
82.5°	648.7	371.9	320.8	282.5	258.3
85°	364.8	286.7	245.6	225.7	224.3
87.5°	78.1	103.6	82.3	78.1	55.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)