

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-L850-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-L850-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

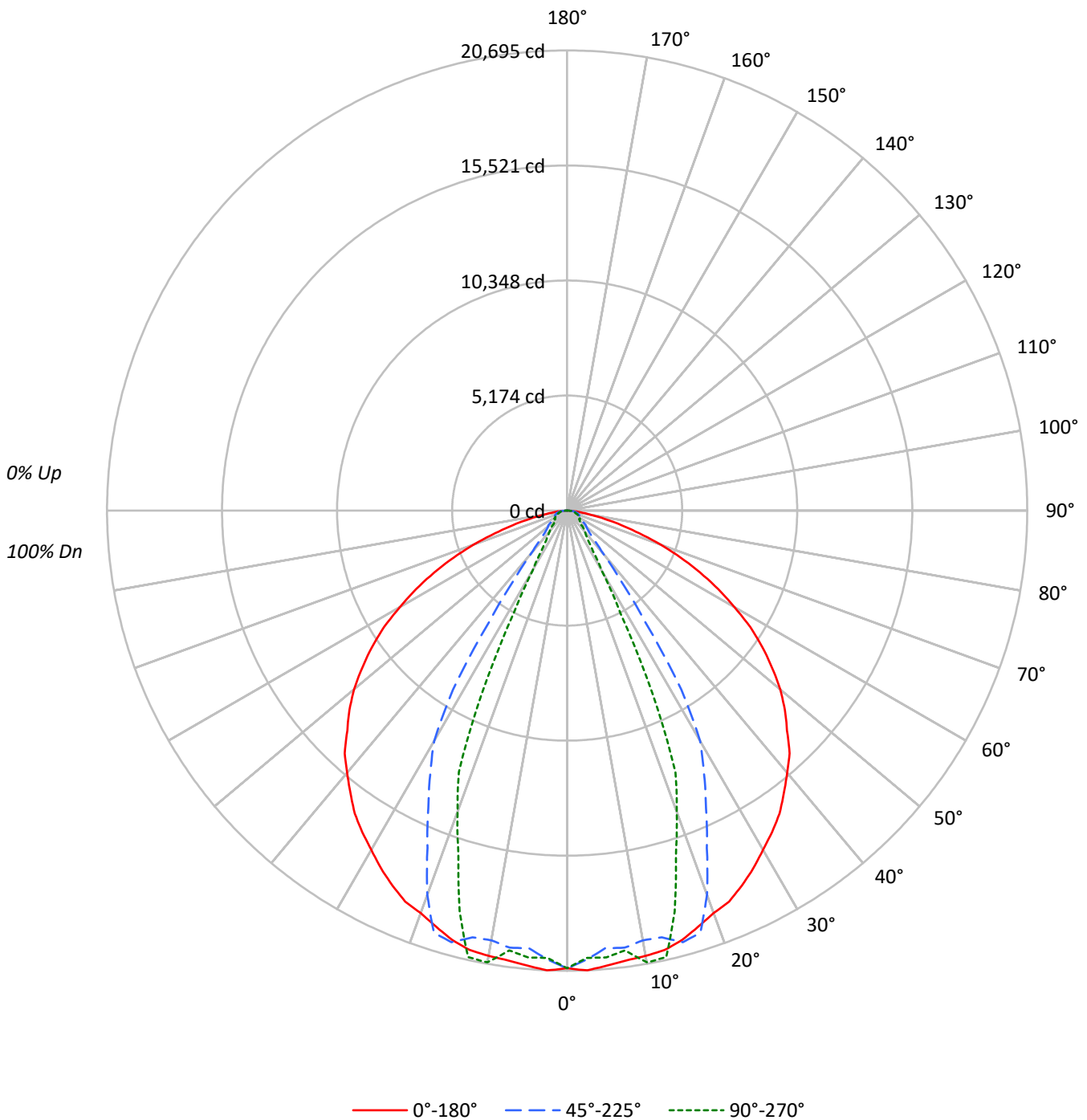
Lumens per Lamp: N/A
Luminaire Lumens: 27671.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-30SE-N-CLWG-UNV-L850-ED3-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-CLWG-UNV-L850-ED3-U

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°	27694	27694	27694
5°	27740	26683	27246
10°	27780	26812	28188
15°	27842	27987	26012
20°	27579	26324	20647
25°	27619	21945	13487
30°	27371	18591	4845
35°	27342	10071	2725
40°	27033	4391	2134
45°	26615	2713	1674
50°	26200	2364	1580
55°	25170	2050	1546
60°	23353	1837	1661
65°	20991	2076	1815
70°	17605	2232	1872
75°	13161	2546	2026
80°	8265	2956	2311
85°	5504	3705	3384



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-CLWG-UNV-L850-ED3-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1907.8	6.9
10°-20°	5387.1	19.5
20°-30°	6596.7	23.8
30°-40°	5180.4	18.7
40°-50°	3841.6	13.9
50°-60°	2338.7	8.5
60°-70°	1400.9	5.1
70°-80°	768.6	2.8
80°-90°	249.3	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°	13891.5	50.2
0°-40°	19071.9	68.9
0°-60°	25252.2	91.3
0°-90°	27671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20583	20583	20583	20583	20583	
5°	20539	19980	19756	19974	20172	###
15°	19988	19440	20092	19280	18674	5628
25°	18604	18662	14782	11594	9085	8564
35°	16646	15142	6131	2052	1659	10387
45°	13987	10043	1426	1081	880	10816
55°	10730	2767	874	739	659	9548
65°	6593	816	652	613	570	6514
75°	2532	515	490	426	390	2741
85°	356	280	240	221	219	435
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-CLWG-UNV-L850-ED3-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20583.1	20583.1	20583.1	20583.1	20583.1
2.5°	20695.4	20416.6	20203.0	20083.7	20132.2
5°	20538.7	19979.6	19756.3	19974.1	20172.5
7.5°	20402.7	19571.8	19824.3	19843.7	19947.7
10°	20333.4	19533.0	19624.5	20055.9	20631.6
12.5°	20241.8	19623.1	19655.0	20243.2	20567.8
15°	19988.0	19440.0	20092.0	19280.5	18674.3
17.5°	19617.6	19012.8	19908.9	17080.4	16256.4
20°	19261.1	18548.1	18384.4	15214.7	14419.8
22.5°	19030.8	18477.3	16422.9	13557.0	12735.8
25°	18603.6	18661.8	14781.9	11594.1	9084.7
27.5°	18133.3	18227.6	13330.9	7732.2	5204.7
30°	17617.3	17725.5	11965.9	4569.4	3118.4
32.5°	17149.8	16539.4	9556.3	2850.7	2168.2
35°	16646.2	15142.5	6131.4	2051.6	1659.1
37.5°	16012.3	13674.9	3881.3	1623.0	1392.7
40°	15390.8	12357.1	2499.7	1385.8	1215.2
42.5°	14809.6	11270.9	1818.6	1211.0	1097.3
45°	13987.0	10043.2	1426.0	1080.6	879.5
47.5°	13275.4	8603.3	1247.1	914.2	758.8
50°	12516.6	6578.0	1129.2	812.9	754.6
52.5°	11616.3	4303.1	1043.2	778.2	704.7
55°	10729.9	2767.4	873.9	739.4	658.9
57.5°	9772.7	1754.8	771.3	717.2	688.0
60°	8678.2	1183.3	682.5	679.7	617.3
62.5°	7665.6	972.4	658.9	652.0	584.0
65°	6593.3	815.7	652.0	613.1	570.1
67.5°	5522.4	699.1	589.6	560.4	523.0
70°	4475.1	639.5	567.4	554.9	475.8
72.5°	3398.6	527.1	503.5	470.3	395.3
75°	2531.6	514.6	489.7	425.9	389.8
77.5°	1713.2	474.4	445.3	381.5	352.3
80°	1066.7	435.6	381.5	334.3	298.2
82.5°	633.9	363.4	313.5	276.1	252.5
85°	356.5	280.2	240.0	220.6	219.2
87.5°	76.3	101.3	80.5	76.3	54.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)