

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-W-CLI-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-W-CLI-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

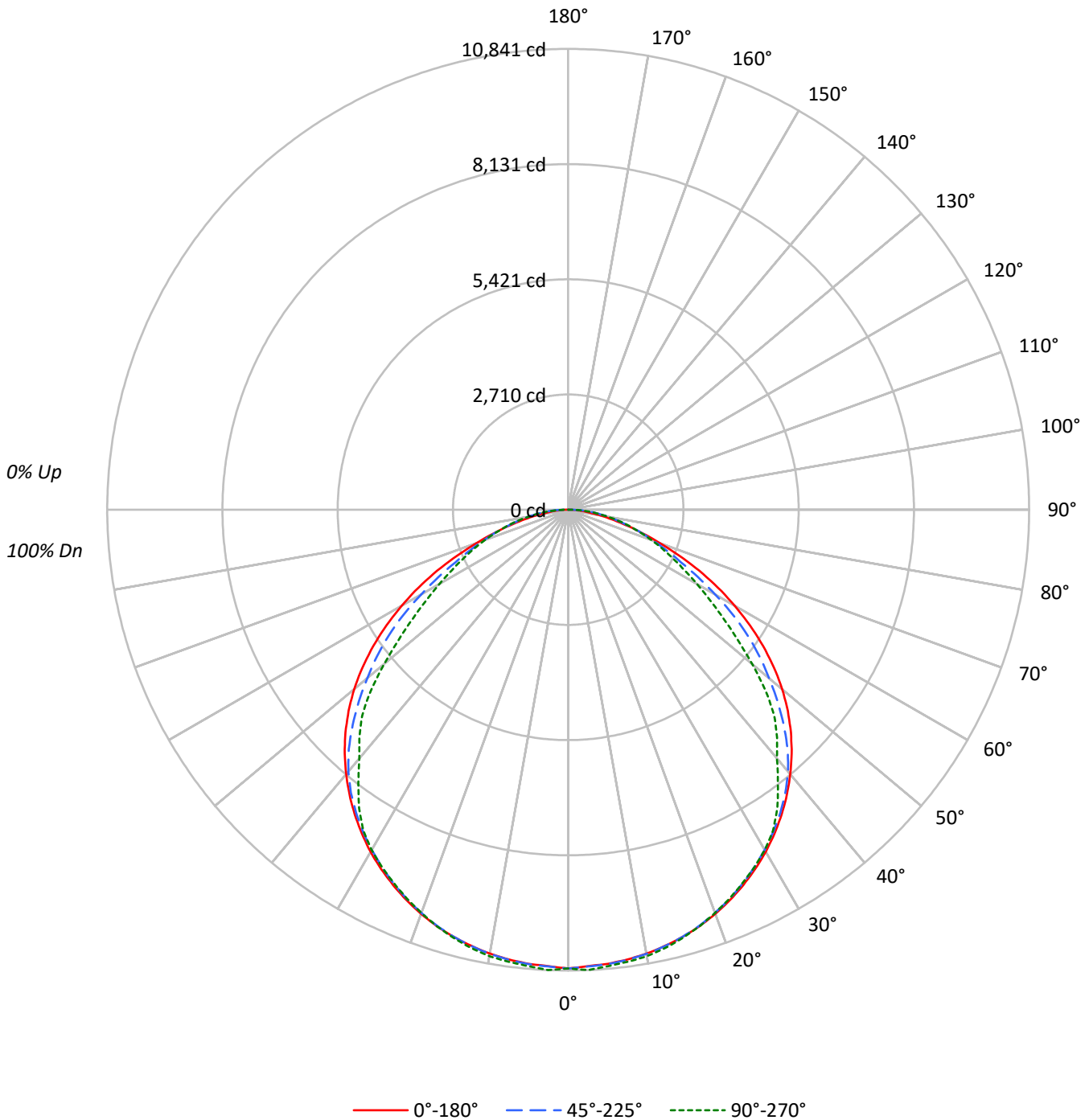
Lumens per Lamp: N/A
Luminaire Lumens: 28993.0 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
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	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14520	14520	14520
5°	14481	14491	14556
10°	14489	14496	14572
15°	14490	14489	14523
20°	14487	14454	14457
25°	14465	14411	14394
30°	14441	14355	14363
35°	14374	14285	14082
40°	14271	14126	13414
45°	14090	13639	13043
50°	13751	12913	11812
55°	13125	12077	10445
60°	12180	10775	9420
65°	10826	9330	8661
70°	8985	8338	8165
75°	7267	7630	7725
80°	5772	7297	7267
85°	4520	7839	7480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1023.4	3.5
10°-20°	2943.7	10.2
20°-30°	4488.6	15.5
30°-40°	5430.6	18.7
40°-50°	5500.7	19.0
50°-60°	4546.5	15.7
60°-70°	3002.8	10.4
70°-80°	1565.8	5.4
80°-90°	490.9	1.7
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°	8455.7	29.2
0°-40°	13886.3	47.9
0°-60°	23933.5	82.5
0°-90°	28993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10791	10791	10791	10791	10791	
5°	10721	10786	10729	10776	10777	###
15°	10403	10456	10401	10434	10426	2938
25°	9743	9782	9707	9732	9695	4493
35°	8751	8763	8697	8685	8574	5474
45°	7405	7386	7168	6945	6854	5702
55°	5595	5512	5148	4648	4453	4987
65°	3401	3302	2930	2740	2720	3359
75°	1398	1422	1468	1487	1486	1523
85°	293	377	508	504	484	355
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10791.4	10791.4	10791.4	10791.4	10791.4
2.5°	10746.0	10809.5	10756.4	10803.0	10840.6
5°	10721.4	10786.2	10729.2	10775.8	10777.1
7.5°	10673.5	10738.2	10679.9	10726.6	10725.3
10°	10604.8	10665.7	10610.0	10665.7	10665.7
12.5°	10511.5	10571.1	10516.7	10568.5	10560.8
15°	10402.7	10455.8	10401.4	10433.8	10426.0
17.5°	10274.5	10322.4	10261.5	10288.7	10273.2
20°	10117.7	10161.8	10094.4	10129.4	10097.0
22.5°	9941.5	9983.0	9914.3	9940.2	9904.0
25°	9743.3	9782.2	9707.0	9731.7	9695.4
27.5°	9529.6	9564.5	9480.3	9510.1	9481.6
30°	9295.1	9311.9	9239.4	9278.2	9244.6
32.5°	9033.4	9043.8	8980.3	9015.3	8958.3
35°	8751.0	8762.6	8696.6	8684.9	8573.5
37.5°	8449.1	8454.3	8392.1	8287.2	8103.2
40°	8125.3	8122.7	8042.3	7800.1	7636.9
42.5°	7779.4	7778.1	7636.9	7360.9	7267.6
45°	7405.0	7385.5	7167.9	6945.1	6854.4
47.5°	7003.4	6982.6	6678.2	6500.7	6294.7
50°	6569.4	6533.1	6169.1	5926.8	5643.1
52.5°	6101.7	6046.0	5675.5	5284.3	5016.1
55°	5595.2	5512.3	5148.2	4648.2	4452.6
57.5°	5067.9	4944.9	4591.2	4104.1	3944.7
60°	4526.4	4389.1	4004.3	3604.0	3500.4
62.5°	3969.4	3833.3	3440.8	3139.0	3081.9
65°	3400.6	3302.2	2930.4	2739.9	2720.5
67.5°	2817.7	2782.7	2499.0	2401.8	2394.0
70°	2283.9	2277.5	2119.4	2070.2	2075.4
72.5°	1825.3	1817.6	1794.2	1769.6	1770.9
75°	1397.8	1422.4	1467.8	1487.2	1485.9
77.5°	1042.9	1093.4	1189.3	1228.1	1221.6
80°	744.9	820.0	941.8	978.1	937.9
82.5°	496.2	575.2	719.0	724.2	691.8
85°	292.8	377.0	507.8	503.9	484.5
87.5°	145.1	226.7	304.4	291.5	278.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)