

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-CLI-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 (P23766)
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-CLI-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

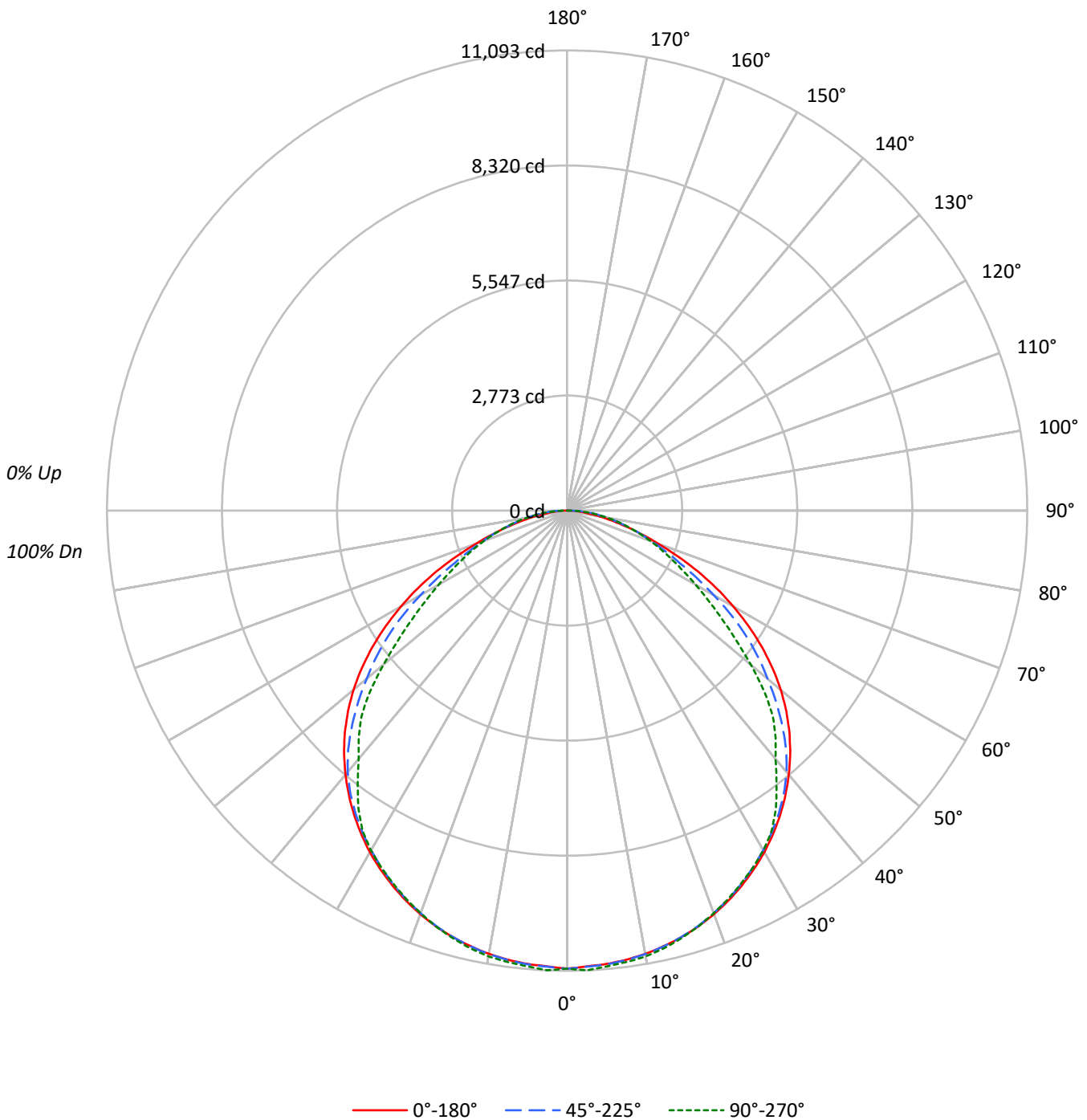
Lumens per Lamp: N/A
Luminaire Lumens: 29667.0 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	14857	14857	14857
5°	14817	14828	14894
10°	14826	14833	14911
15°	14827	14825	14861
20°	14824	14790	14793
25°	14801	14746	14728
30°	14777	14688	14697
35°	14708	14616	14410
40°	14603	14454	13725
45°	14418	13956	13346
50°	14071	13213	12087
55°	13430	12357	10688
60°	12464	11026	9639
65°	11078	9546	8863
70°	9194	8532	8354
75°	7436	7808	7904
80°	5906	7467	7436
85°	4625	8021	7654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1047.2	3.5
10°-20°	3012.1	10.2
20°-30°	4593.0	15.5
30°-40°	5556.8	18.7
40°-50°	5628.6	19.0
50°-60°	4652.1	15.7
60°-70°	3072.7	10.4
70°-80°	1602.2	5.4
80°-90°	502.3	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°	8652.3	29.2
0°-40°	14209.1	47.9
0°-60°	24489.8	82.5
0°-90°	29667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11042	11042	11042	11042	11042	
5°	10971	11037	10979	11026	11028	###
15°	10644	10699	10643	10676	10668	3006
25°	9970	10010	9933	9958	9921	4597
35°	8954	8966	8899	8887	8773	5601
45°	7577	7557	7334	7106	7014	5834
55°	5725	5640	5268	4756	4556	5103
65°	3480	3379	2998	2804	2784	3437
75°	1430	1456	1502	1522	1520	1558
85°	300	386	520	516	496	364
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11042.2	11042.2	11042.2	11042.2	11042.2
2.5°	10995.8	11060.8	11006.4	11054.2	11092.6
5°	10970.6	11036.9	10978.6	11026.3	11027.6
7.5°	10921.6	10987.9	10928.2	10975.9	10974.6
10°	10851.3	10913.6	10856.6	10913.6	10913.6
12.5°	10755.9	10816.9	10761.2	10814.2	10806.3
15°	10644.5	10698.9	10643.2	10676.4	10668.4
17.5°	10513.3	10562.4	10500.1	10527.9	10512.0
20°	10352.9	10398.0	10329.1	10364.8	10331.7
22.5°	10172.6	10215.1	10144.8	10171.3	10134.2
25°	9969.8	10009.6	9932.7	9957.9	9920.8
27.5°	9751.1	9786.9	9700.7	9731.2	9702.0
30°	9511.2	9528.4	9454.2	9493.9	9459.5
32.5°	9243.4	9254.0	9189.0	9224.8	9166.5
35°	8954.4	8966.3	8898.7	8886.8	8772.8
37.5°	8645.5	8650.8	8587.2	8479.8	8291.6
40°	8314.1	8311.5	8229.3	7981.4	7814.4
42.5°	7960.2	7958.9	7814.4	7532.0	7436.6
45°	7577.1	7557.2	7334.5	7106.5	7013.7
47.5°	7166.2	7145.0	6833.5	6651.8	6441.1
50°	6722.1	6685.0	6312.5	6064.6	5774.3
52.5°	6243.6	6186.6	5807.4	5407.1	5132.7
55°	5725.3	5640.4	5267.9	4756.2	4556.1
57.5°	5185.7	5059.8	4697.9	4199.5	4036.4
60°	4631.6	4491.1	4097.4	3687.8	3581.8
62.5°	4061.6	3922.4	3520.8	3211.9	3153.6
65°	3479.7	3378.9	2998.5	2803.6	2783.8
67.5°	2883.2	2847.4	2557.1	2457.7	2449.7
70°	2337.0	2330.4	2168.7	2118.3	2123.6
72.5°	1867.8	1859.8	1836.0	1810.8	1812.1
75°	1430.3	1455.5	1501.9	1521.8	1520.5
77.5°	1067.1	1118.8	1216.9	1256.7	1250.0
80°	762.2	839.1	963.7	1000.8	959.7
82.5°	507.7	588.6	735.7	741.0	707.9
85°	299.6	385.7	519.6	515.7	495.8
87.5°	148.5	232.0	311.5	298.3	285.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)