

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-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 (P23760)
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-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

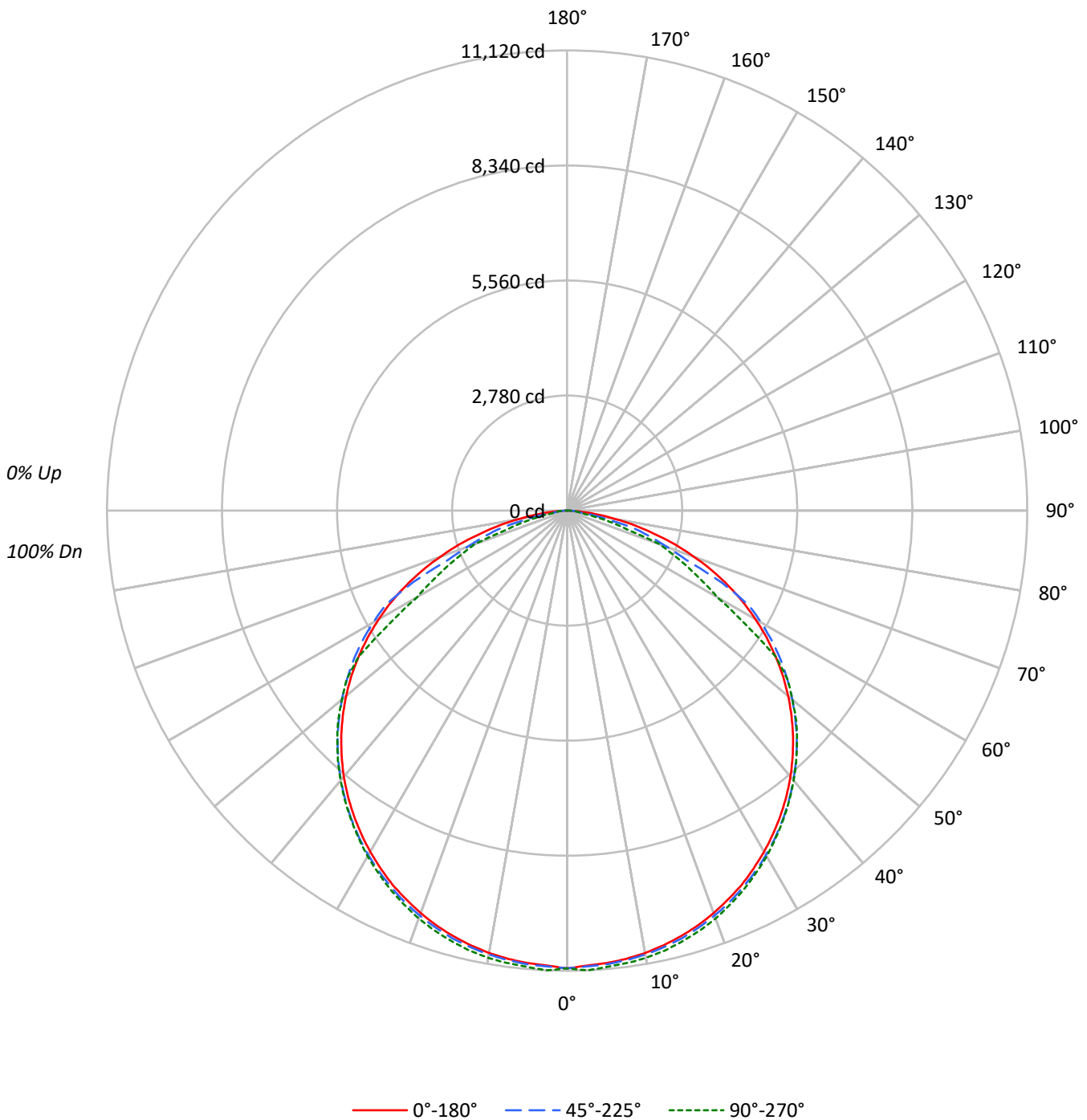
Lumens per Lamp: N/A
Luminaire Lumens: 31935.0 lumens
Efficiency: N/A
Efficacy: 177.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	89		91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14884	14884	14884
5°	14822	14864	14948
10°	14831	14883	14996
15°	14827	14906	15010
20°	14819	14914	15019
25°	14814	14920	15003
30°	14788	14932	14988
35°	14769	14939	14959
40°	14743	14938	14962
45°	14687	14932	14949
50°	14599	14868	14866
55°	14429	14790	14423
60°	14161	14572	11285
65°	13689	13114	10167
70°	12824	10090	9370
75°	11355	8798	5840
80°	9352	5179	2610
85°	6163	3174	3419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.7	3.3
10°-20°	3028.6	9.5
20°-30°	4643.2	14.5
30°-40°	5694.3	17.8
40°-50°	6046.4	18.9
50°-60°	5522.7	17.3
60°-70°	3846.0	12.0
70°-80°	1793.8	5.6
80°-90°	310.3	1.0
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°	8721.4	27.3
0°-40°	14415.8	45.1
0°-60°	25984.9	81.4
0°-90°	31935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11062	11062	11062	11062	11062	
5°	10974	11051	11005	11058	11067	###
15°	10644	10718	10701	10766	10776	3006
25°	9978	10066	10050	10124	10106	4598
35°	8992	9095	9095	9156	9107	5627
45°	7719	7835	7847	7898	7856	5953
55°	6151	6274	6305	6316	6148	5493
65°	4300	4432	4119	3276	3194	4242
75°	2184	2322	1692	1172	1123	2335
85°	399	263	206	220	222	516
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11062.0	11062.0	11062.0	11062.0	<i>11062.0</i>
2.5°	<i>11003.6</i>	<i>11073.9</i>	<i>11027.5</i>	<i>11077.9</i>	<i>11120.3</i>
5°	10974.5	11051.4	11005.0	11058.0	<i>11067.3</i>
7.5°	10926.7	10999.7	10957.2	11015.6	<i>11030.2</i>
10°	10855.1	10926.7	10893.6	10962.5	<i>10975.8</i>
12.5°	10758.3	10831.2	10806.0	10881.6	<i>10890.9</i>
15°	10644.2	10718.5	10701.3	10766.2	<i>10775.5</i>
17.5°	10510.3	10587.2	10567.3	10636.3	<i>10642.9</i>
20°	10349.8	10433.4	10416.1	10497.0	<i>10489.1</i>
22.5°	10169.4	10258.3	10245.0	10325.9	<i>10302.1</i>
25°	9978.5	10066.0	10050.1	10124.4	<i>10105.8</i>
27.5°	9754.3	9851.2	9836.6	9908.2	<i>9879.0</i>
30°	9518.3	9616.4	9611.1	9676.1	<i>9646.9</i>
32.5°	9263.6	9368.4	9363.1	9426.8	<i>9381.7</i>
35°	8991.8	9095.2	9095.2	9156.2	<i>9107.1</i>
37.5°	8704.0	8808.7	8810.1	8868.4	<i>8822.0</i>
40°	8393.6	8498.4	8505.0	8560.7	<i>8518.3</i>
42.5°	8067.4	8181.4	8186.8	8237.1	<i>8197.4</i>
45°	7718.6	7835.3	7847.2	7897.6	<i>7856.5</i>
47.5°	7353.9	7471.9	7482.5	7536.9	<i>7507.7</i>
50°	6974.6	7088.6	7103.2	7148.3	<i>7101.9</i>
52.5°	6574.1	6690.8	6710.7	6738.5	<i>6717.3</i>
55°	6151.0	6274.3	6304.8	6315.5	<i>6148.4</i>
57.5°	5713.4	5839.3	5868.5	5624.5	<i>5087.4</i>
60°	5262.4	5387.1	5415.0	4575.5	<i>4193.5</i>
62.5°	4793.0	4915.0	4945.5	3791.7	<i>3669.6</i>
65°	4299.6	4432.2	4119.2	3275.8	<i>3193.5</i>
67.5°	3793.0	3929.6	3115.3	2807.6	<i>2758.5</i>
70°	3259.8	3397.8	2564.9	2393.8	<i>2381.9</i>
72.5°	2747.9	2850.0	2104.7	1814.3	<i>1527.8</i>
75°	2184.3	2322.2	1692.3	1172.4	<i>1123.3</i>
77.5°	1693.6	1464.1	1021.2	859.4	<i>677.7</i>
80°	1206.9	978.7	668.4	356.8	<i>336.9</i>
82.5°	765.2	639.2	262.6	269.2	<i>281.2</i>
85°	399.2	262.6	205.6	220.2	<i>221.5</i>
87.5°	128.6	112.7	123.3	122.0	<i>120.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)