

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-UNV-L835-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

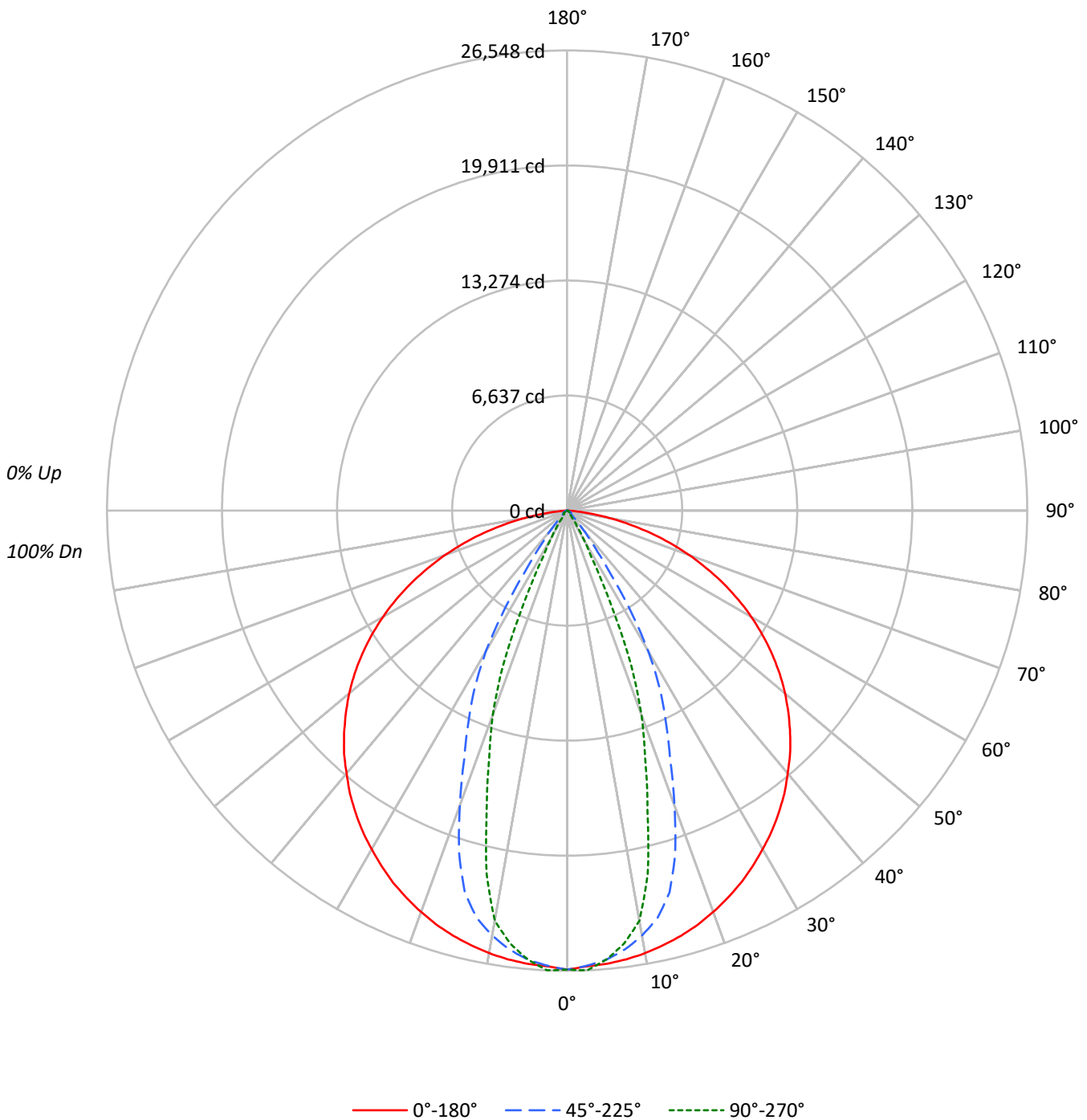
Lumens per Lamp: N/A
Luminaire Lumens: 28149.0 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	35634	35634	35634
5°	35443	35130	35115
10°	35421	34004	32811
15°	35371	31768	24971
20°	35289	25897	17974
25°	35199	20024	8855
30°	35043	14553	2871
35°	34960	6456	739
40°	34777	2622	498
45°	34622	736	530
50°	34352	522	588
55°	33857	621	251
60°	33022	692	153
65°	31663	441	181
70°	29416	391	223
75°	25733	295	308
80°	19241	361	439
85°	9530	466	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2457.7	8.7
10°-20°	6145.6	21.8
20°-30°	6656.6	23.6
30°-40°	4929.5	17.5
40°-50°	3550.5	12.6
50°-60°	2198.4	7.8
60°-70°	1352.0	4.8
70°-80°	712.7	2.5
80°-90°	145.9	0.5
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°	15259.9	54.2
0°-40°	20189.4	71.7
0°-60°	25938.4	92.1
0°-90°	28149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26484	26484	26484	26484	26484	
5°	26242	26339	26010	26029	25999	###
15°	25393	24803	22806	19394	17927	7168
25°	23710	21718	13488	8485	5964	10925
35°	21284	15005	3931	925	450	13316
45°	18195	8454	387	280	278	14032
55°	14433	1741	265	239	107	12884
65°	9946	184	139	88	57	9813
75°	4950	43	57	74	59	5228
85°	617	16	30	45	38	933
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26483.9	26483.9	26483.9	26483.9	26483.9
2.5°	26313.8	26481.3	26283.5	26430.9	26548.1
5°	26242.0	26339.0	26010.1	26029.0	25998.8
7.5°	26116.0	26093.3	25540.2	25298.3	25192.5
10°	25925.7	25775.8	24888.9	24383.6	24015.8
12.5°	25680.1	25344.9	24076.2	22469.9	21472.1
15°	25392.8	24803.2	22806.3	19394.5	17926.8
17.5°	25050.1	24214.8	20730.0	16254.9	14944.7
20°	24645.7	23558.4	18086.8	13829.7	12553.4
22.5°	24194.7	22759.7	15519.2	11493.9	9673.3
25°	23709.6	21717.7	13488.2	8485.3	5964.3
27.5°	23149.0	20378.5	11583.3	4997.9	3043.9
30°	22555.6	18765.9	9367.2	2688.6	1848.2
32.5°	21957.1	16937.8	6628.2	1679.4	1048.2
35°	21284.3	15005.1	3930.8	924.7	449.8
37.5°	20582.6	13233.7	2323.2	420.8	288.5
40°	19800.2	11614.8	1493.0	279.7	283.5
42.5°	19044.3	10105.5	840.3	275.9	281.0
45°	18195.1	8453.8	386.8	279.7	278.4
47.5°	17317.0	6741.6	250.7	282.2	282.2
50°	16411.1	4820.3	249.5	288.5	281.0
52.5°	15454.9	3007.3	259.5	287.3	230.6
55°	14433.1	1741.1	264.6	239.4	107.1
57.5°	13374.8	1026.8	267.1	137.3	60.5
60°	12271.2	568.2	257.0	102.0	56.7
62.5°	11133.5	270.9	202.8	95.8	55.4
65°	9945.5	183.9	138.6	88.2	56.7
67.5°	8712.0	142.4	109.6	83.2	58.0
70°	7477.4	105.8	99.5	83.2	56.7
72.5°	6222.5	71.8	83.2	84.4	56.7
75°	4950.1	42.8	56.7	74.3	59.2
77.5°	3688.9	26.5	44.1	76.9	71.8
80°	2483.2	22.7	46.6	71.8	56.7
82.5°	1457.7	20.2	45.4	55.4	45.4
85°	617.3	16.4	30.2	45.4	37.8
87.5°	115.9	13.9	23.9	36.5	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)