

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-CLWG-UNV-L840-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-CLWG-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26954.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

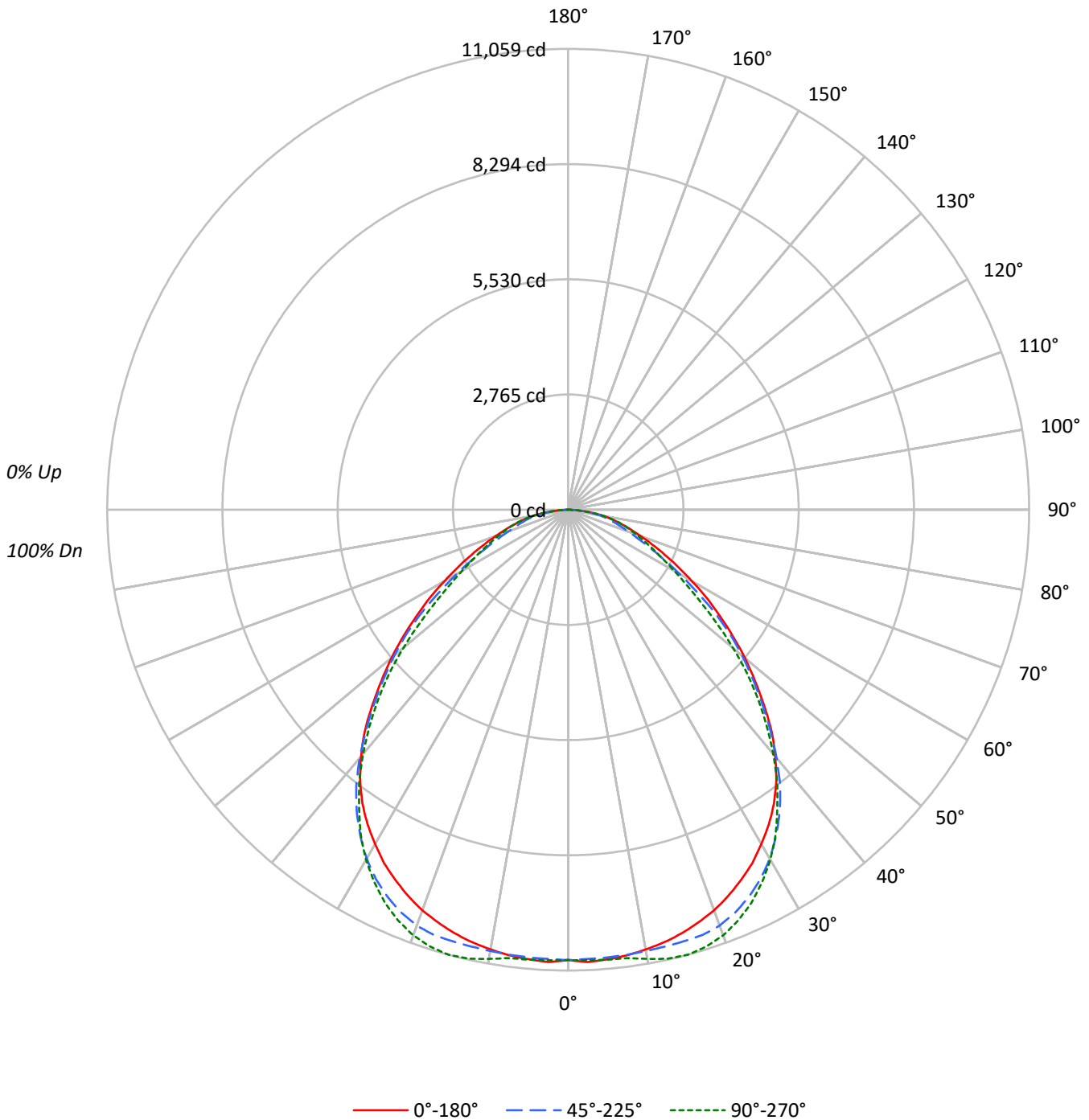
Input Watts (W): 180
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14542	14542	14542
5°	14627	14567	14639
10°	14640	14690	14953
15°	14659	14934	15404
20°	14649	15208	15563
25°	14559	15221	15445
30°	14392	15020	15068
35°	14135	14533	14359
40°	13577	13661	13445
45°	12651	12518	12264
50°	11583	11396	10812
55°	10404	10018	9142
60°	9227	8289	7892
65°	8130	6887	7162
70°	7271	5977	6821
75°	6811	5811	6898
80°	6631	5875	6567
85°	5294	4648	4820



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1029.5	3.8
10°-20°	3032.6	11.3
20°-30°	4665.3	17.3
30°-40°	5444.7	20.2
40°-50°	5059.5	18.8
50°-60°	3750.3	13.9
60°-70°	2292.6	8.5
70°-80°	1305.9	4.8
80°-90°	373.5	1.4
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°	8727.5	32.4
0°-40°	14172.1	52.6
0°-60°	22982.0	85.3
0°-90°	26954.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10808	10808	10808	10808	10808	
5°	10830	10780	10786	10777	10838	###
15°	10523	10518	10721	10933	11059	2970
25°	9807	9882	10253	10339	10404	4518
35°	8606	8672	8848	8776	8742	5362
45°	6649	6688	6579	6476	6445	5123
55°	4435	4324	4271	3967	3897	3980
65°	2554	2319	2163	2222	2250	2555
75°	1310	1229	1118	1274	1327	1402
85°	343	334	301	312	312	395
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10807.8	10807.8	10807.8	10807.8	10807.8
2.5°	10866.3	10805.0	10793.8	10768.7	10824.5
5°	10830.1	10779.9	10785.5	10777.1	10838.4
7.5°	10788.3	10752.0	10774.3	10771.5	10852.4
10°	10715.8	10696.3	10752.0	10813.4	10944.4
12.5°	10634.9	10615.4	10738.1	10894.2	11036.4
15°	10523.4	10517.9	10721.4	10933.2	11058.7
17.5°	10384.1	10392.4	10701.8	10883.0	10994.6
20°	10230.7	10244.7	10621.0	10768.7	10869.1
22.5°	10032.8	10080.2	10464.9	10587.6	10665.6
25°	9807.0	9882.3	10253.0	10339.4	10403.6
27.5°	9564.5	9639.7	9991.0	10035.6	10071.8
30°	9263.4	9369.3	9667.6	9673.2	9698.3
32.5°	8956.8	9051.5	9280.1	9255.0	9260.6
35°	8605.5	8672.4	8848.0	8775.6	8742.1
37.5°	8201.3	8237.5	8349.1	8240.3	8234.8
40°	7730.2	7777.6	7777.6	7627.1	7654.9
42.5°	7228.4	7245.1	7175.4	7033.3	7055.6
45°	6648.6	6687.6	6578.9	6475.7	6445.1
47.5°	6074.3	6113.3	5999.1	5879.2	5826.2
50°	5533.5	5514.0	5444.3	5240.8	5165.5
52.5°	4973.2	4911.9	4884.0	4585.7	4499.3
55°	4435.2	4323.7	4270.7	3966.8	3897.2
57.5°	3936.2	3735.5	3635.1	3398.2	3370.3
60°	3428.8	3203.0	3080.4	2927.0	2932.6
62.5°	2968.9	2731.9	2584.2	2539.6	2559.1
65°	2553.5	2319.3	2163.2	2221.8	2249.6
67.5°	2177.2	1984.8	1809.2	1945.8	1973.7
70°	1848.2	1694.9	1519.3	1720.0	1733.9
72.5°	1575.0	1449.6	1301.8	1491.4	1522.1
75°	1310.2	1229.4	1117.9	1274.0	1326.9
77.5°	1078.8	1014.7	950.6	1045.4	1103.9
80°	855.8	791.7	758.2	808.4	847.5
82.5°	604.9	563.1	529.7	565.9	585.4
85°	342.9	334.5	301.1	312.2	312.2
87.5°	78.1	89.2	100.4	92.0	78.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)