

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-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-CLWG-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

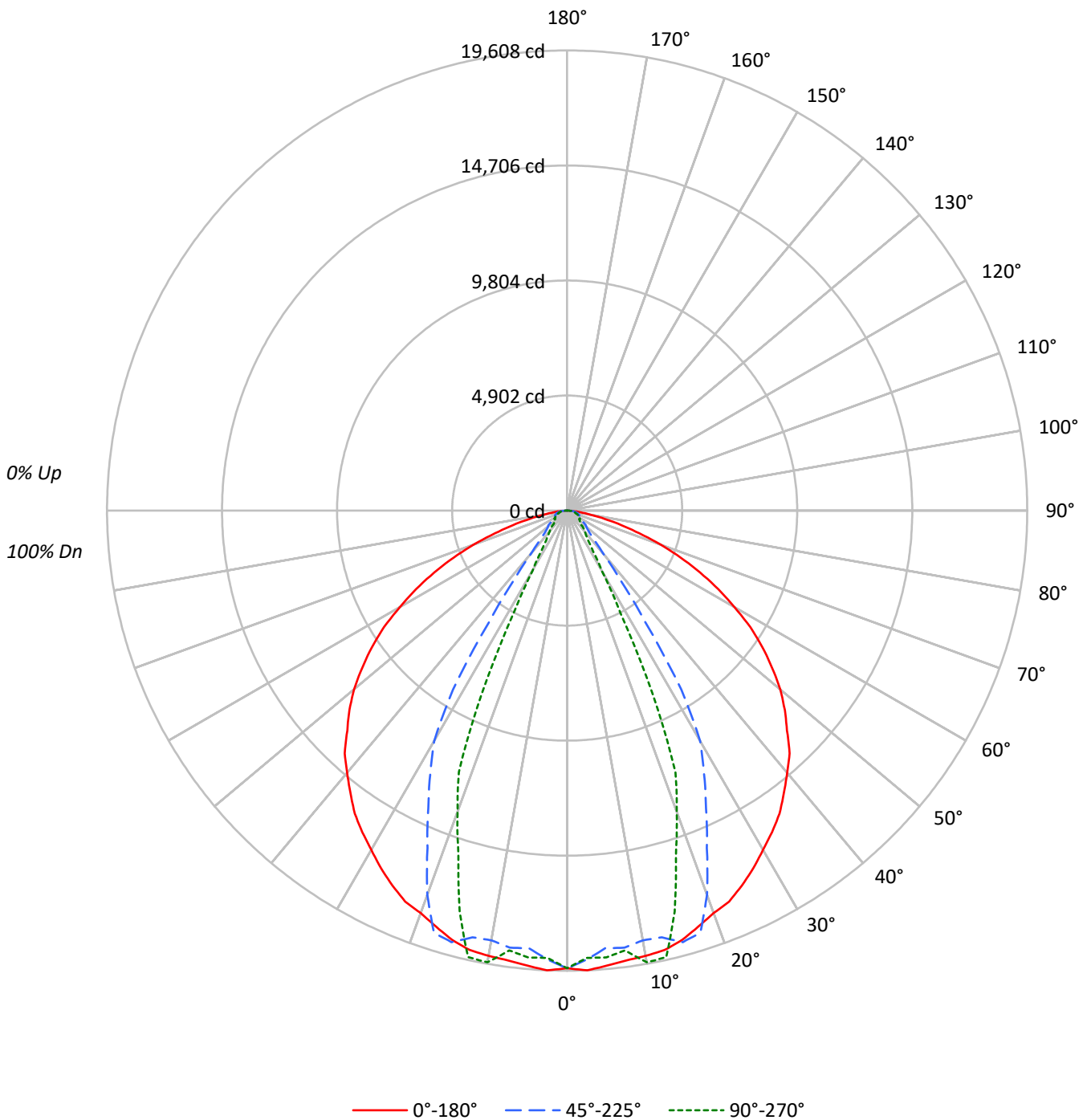
Lumens per Lamp: N/A
Luminaire Lumens: 26217.0 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89				89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71				71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58				58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41				41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38				38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26239	26239	26239
5°	26283	25281	25814
10°	26321	25403	26707
15°	26379	26517	24646
20°	26130	24940	19562
25°	26167	20792	12778
30°	25933	17614	4590
35°	25905	9542	2582
40°	25612	4160	2022
45°	25216	2571	1586
50°	24823	2239	1497
55°	23848	1942	1464
60°	22126	1740	1574
65°	19888	1967	1720
70°	16680	2114	1773
75°	12469	2412	1920
80°	7831	2800	2190
85°	5215	3511	3206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1807.5	6.9
10°-20°	5104.0	19.5
20°-30°	6250.0	23.8
30°-40°	4908.2	18.7
40°-50°	3639.7	13.9
50°-60°	2215.8	8.5
60°-70°	1327.3	5.1
70°-80°	728.2	2.8
80°-90°	236.2	0.9
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°	13161.6	50.2
0°-40°	18069.8	68.9
0°-60°	23925.3	91.3
0°-90°	26217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19502	19502	19502	19502	19502	
5°	19460	18930	18718	18924	19112	###
15°	18938	18418	19036	18267	17693	5332
25°	17626	17681	14005	10985	8607	8114
35°	15772	14347	5809	1944	1572	9841
45°	13252	9516	1351	1024	833	10248
55°	10166	2622	828	700	624	9047
65°	6247	773	618	581	540	6172
75°	2399	488	464	404	369	2597
85°	338	266	227	209	208	412
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19501.5	19501.5	19501.5	19501.5	19501.5
2.5°	19608.0	19343.8	19141.4	19028.4	19074.4
5°	19459.5	18929.8	18718.2	18924.5	19112.5
7.5°	19330.7	18543.4	18782.6	18801.0	18899.6
10°	19264.9	18506.6	18593.3	19002.1	19547.5
12.5°	19178.2	18592.0	18622.3	19179.5	19487.1
15°	18937.7	18418.5	19036.3	18267.4	17693.0
17.5°	18586.8	18013.7	18862.8	16182.9	15402.2
20°	18249.0	17573.4	17418.4	14415.2	13662.1
22.5°	18030.8	17506.4	15559.9	12844.6	12066.5
25°	17626.0	17681.2	14005.1	10984.9	8607.3
27.5°	17180.5	17269.8	12630.4	7325.9	4931.2
30°	16691.6	16794.1	11337.1	4329.3	2954.5
32.5°	16248.6	15670.3	9054.2	2700.9	2054.2
35°	15771.5	14346.9	5809.2	1943.8	1571.9
37.5°	15170.9	12956.3	3677.4	1537.7	1319.6
40°	14582.1	11707.7	2368.4	1313.0	1151.3
42.5°	14031.4	10678.7	1723.0	1147.4	1039.6
45°	13252.0	9515.5	1351.1	1023.8	833.3
47.5°	12577.8	8151.3	1181.6	866.1	718.9
50°	11858.9	6232.4	1069.8	770.2	715.0
52.5°	11005.9	4076.9	988.4	737.3	667.7
55°	10166.1	2622.0	828.0	700.5	624.3
57.5°	9259.2	1662.6	730.7	679.5	651.9
60°	8222.2	1121.1	646.6	644.0	584.9
62.5°	7262.8	921.3	624.3	617.7	553.3
65°	6246.8	772.8	617.7	580.9	540.2
67.5°	5232.2	662.4	558.6	531.0	495.5
70°	4239.9	605.9	537.5	525.7	450.8
72.5°	3220.0	499.4	477.1	445.5	374.6
75°	2398.6	487.6	463.9	403.5	369.3
77.5°	1623.2	449.5	421.9	361.4	333.8
80°	1010.7	412.7	361.4	316.7	282.6
82.5°	600.6	344.3	297.0	261.5	239.2
85°	337.8	265.5	227.4	209.0	207.7
87.5°	72.3	95.9	76.2	72.3	51.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)