

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-L750-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-L750-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

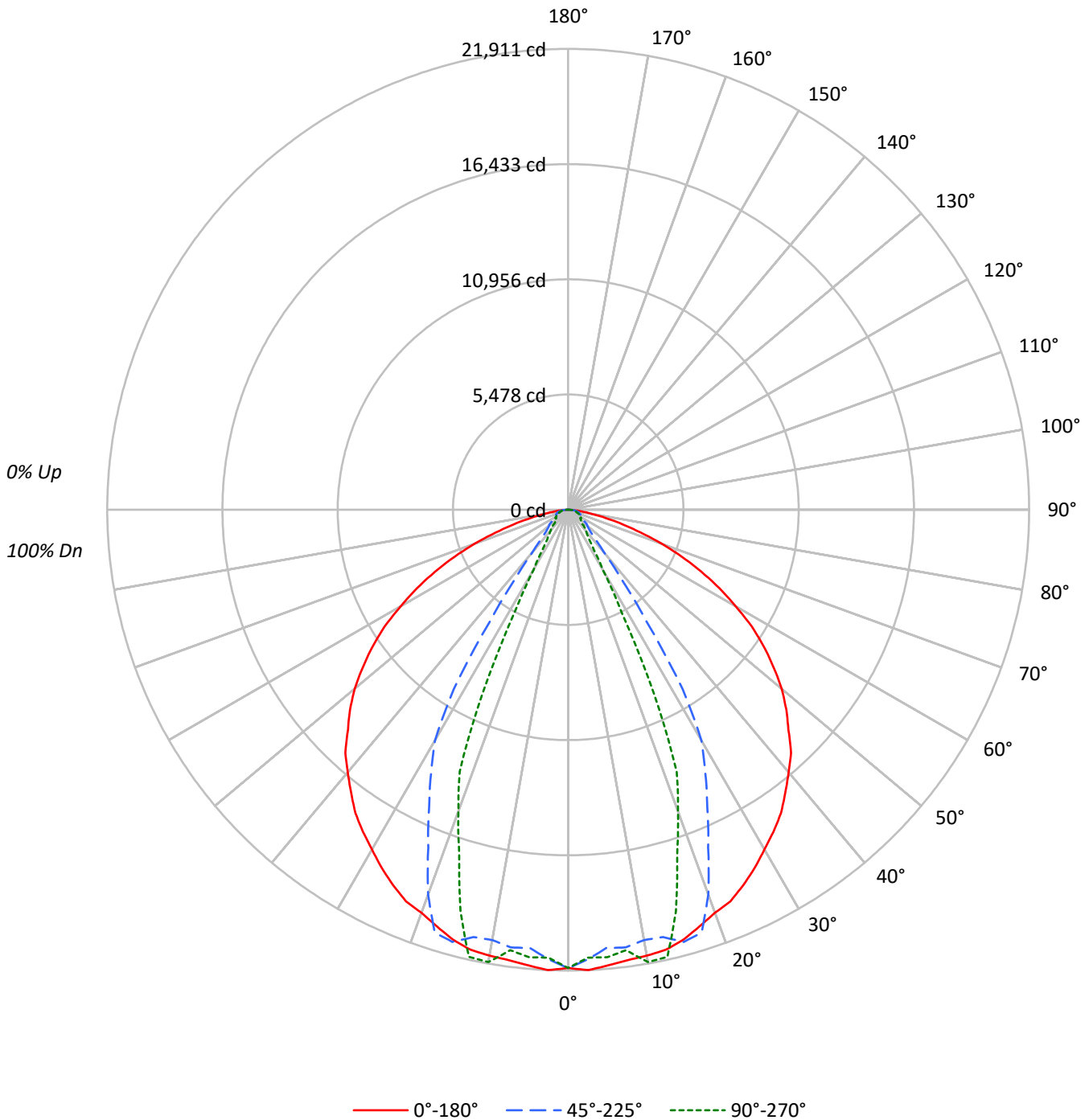
Lumens per Lamp: N/A
Luminaire Lumens: 29296.0 lumens
Efficiency: N/A
Efficacy: 162.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	29321	29321	29321
5°	29369	28250	28846
10°	29412	28386	29843
15°	29477	29631	27540
20°	29198	27869	21859
25°	29241	23234	14279
30°	28978	19682	5129
35°	28948	10662	2885
40°	28620	4648	2260
45°	28178	2873	1772
50°	27738	2502	1672
55°	26648	2170	1636
60°	24724	1945	1759
65°	22224	2198	1922
70°	18639	2363	1982
75°	13934	2695	2145
80°	8751	3130	2447
85°	5826	3923	3582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2019.8	6.9
10°-20°	5703.5	19.5
20°-30°	6984.1	23.8
30°-40°	5484.6	18.7
40°-50°	4067.2	13.9
50°-60°	2476.0	8.5
60°-70°	1483.2	5.1
70°-80°	813.8	2.8
80°-90°	263.9	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°	14707.3	50.2
0°-40°	20192.0	68.9
0°-60°	26735.1	91.3
0°-90°	29296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21792	21792	21792	21792	21792	
5°	21745	21153	20916	21147	21357	###
15°	21162	20582	21272	20413	19771	5958
25°	19696	19758	15650	12275	9618	9067
35°	17624	16032	6491	2172	1756	10997
45°	14808	10633	1510	1144	931	11451
55°	11360	2930	925	783	698	10109
65°	6980	864	690	649	604	6897
75°	2680	545	518	451	413	2902
85°	377	297	254	234	232	461
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21791.8	21791.8	21791.8	21791.8	21791.8
2.5°	21910.8	21615.6	21389.4	21263.1	21314.5
5°	21744.8	21153.0	20916.5	21147.1	21357.1
7.5°	21600.9	20721.2	20988.5	21009.0	21119.2
10°	21527.5	20680.1	20777.0	21233.7	21843.2
12.5°	21430.5	20775.5	20809.3	21432.0	21775.7
15°	21161.8	20581.7	21271.9	20412.8	19771.0
17.5°	20769.7	20129.3	21078.1	18083.5	17211.1
20°	20392.2	19637.3	19464.0	16108.2	15266.6
22.5°	20148.4	19562.4	17387.4	14353.1	13483.7
25°	19696.1	19757.8	15649.9	12275.0	9618.2
27.5°	19198.2	19298.1	14113.7	8186.3	5510.4
30°	18651.9	18766.4	12668.6	4837.7	3301.5
32.5°	18156.9	17510.7	10117.5	3018.1	2295.5
35°	17623.8	16031.8	6491.4	2172.1	1756.5
37.5°	16952.6	14478.0	4109.3	1718.3	1474.5
40°	16294.7	13082.7	2646.5	1467.2	1286.5
42.5°	15679.3	11932.8	1925.4	1282.1	1161.7
45°	14808.4	10633.0	1509.8	1144.1	931.1
47.5°	14055.0	9108.6	1320.3	967.8	803.4
50°	13251.6	6964.3	1195.5	860.6	798.9
52.5°	12298.5	4555.8	1104.4	823.9	746.1
55°	11360.0	2930.0	925.2	782.8	697.6
57.5°	10346.6	1857.8	816.6	759.3	728.5
60°	9187.9	1252.8	722.6	719.6	653.5
62.5°	8115.8	1029.5	697.6	690.3	618.3
65°	6980.5	863.6	690.3	649.1	603.6
67.5°	5846.7	740.2	624.2	593.3	553.7
70°	4737.9	677.0	600.7	587.5	503.7
72.5°	3598.2	558.1	533.1	497.9	418.6
75°	2680.3	544.9	518.4	450.9	412.7
77.5°	1813.8	502.3	471.4	403.9	373.0
80°	1129.4	461.2	403.9	353.9	315.8
82.5°	671.2	384.8	331.9	292.3	267.3
85°	377.4	296.7	254.1	233.5	232.0
87.5°	80.8	107.2	85.2	80.8	57.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)