

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-LD5-30SE-N-CLI-UNV-L750-ED3-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-CLI-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

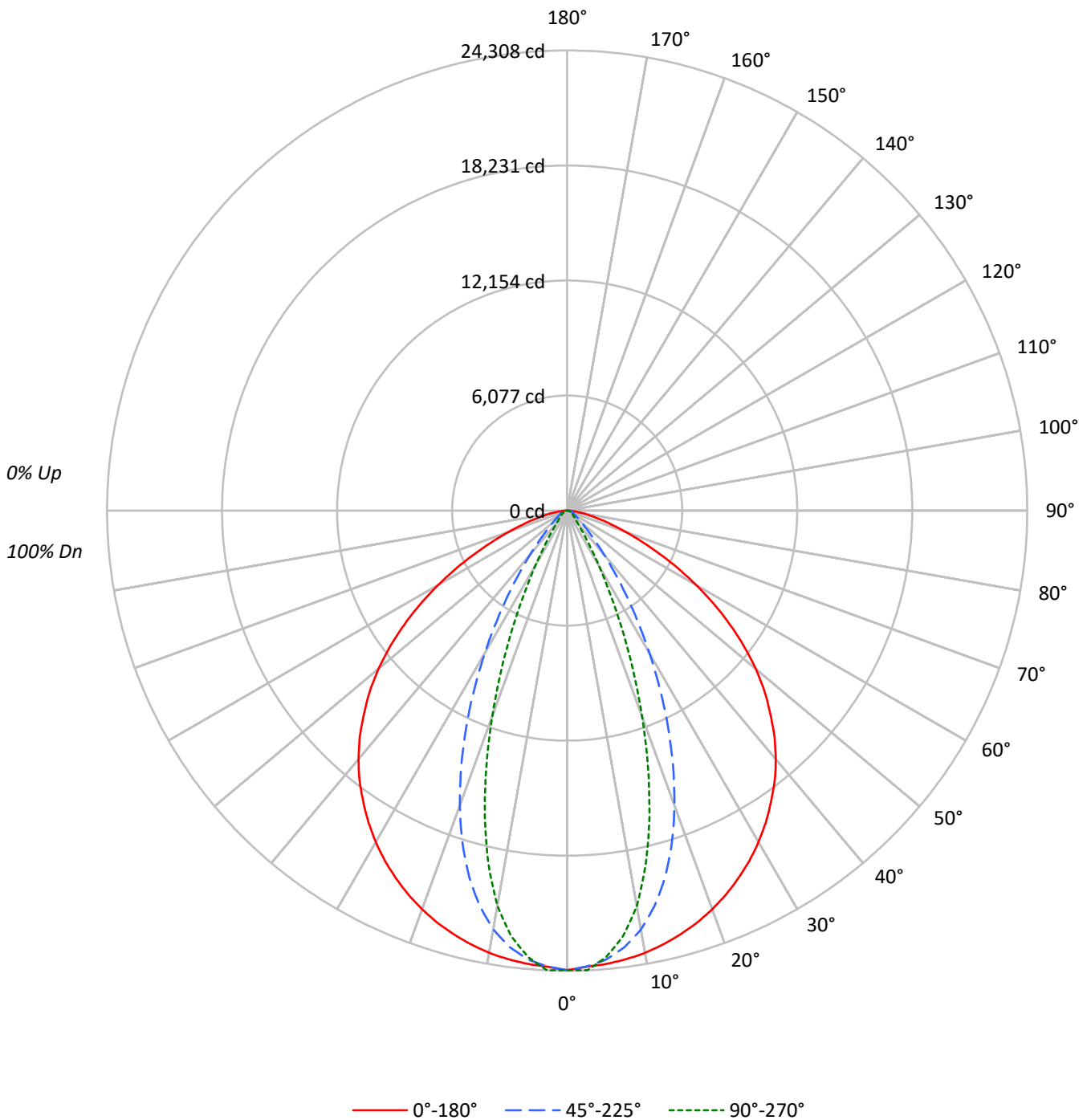
Lumens per Lamp: N/A
Luminaire Lumens: 26576.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
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	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	75	81	77	74	72				72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65				65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60				60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55				55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50				50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46				46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40				40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32662	32662	32662
5°	32466	32143	31973
10°	32411	30687	28958
15°	32281	27894	23386
20°	32087	23735	16575
25°	31800	18716	10015
30°	31414	13508	5147
35°	30847	8831	2571
40°	30115	5304	1500
45°	28864	3168	1122
50°	27224	2071	942
55°	24639	1572	822
60°	21174	1338	750
65°	17032	1221	708
70°	12831	1308	704
75°	9439	1243	725
80°	6905	1238	793
85°	5172	1501	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2235.6	8.4
10°-20°	5561.7	20.9
20°-30°	6160.5	23.2
30°-40°	4935.6	18.6
40°-50°	3523.4	13.3
50°-60°	2263.1	8.5
60°-70°	1226.5	4.6
70°-80°	524.2	2.0
80°-90°	145.4	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°	13957.8	52.5
0°-40°	18893.4	71.1
0°-60°	24680.0	92.9
0°-90°	26576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24275	24275	24275	24275	24275	
5°	24037	24127	23798	23723	23673	###
15°	23174	22449	20025	17697	16789	6539
25°	21420	18887	12607	8214	6746	9868
35°	18780	13584	5376	2168	1565	11742
45°	15169	7842	1665	708	589	11692
55°	10504	3506	670	412	350	9361
65°	5350	1440	384	265	222	5357
75°	1816	527	239	166	139	2017
85°	335	139	97	81	66	409
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24275.3	24275.3	24275.3	24275.3	24275.3
2.5°	24115.4	24266.3	24103.9	24204.9	24308.5
5°	24037.4	24126.9	23798.3	23722.9	23673.0
7.5°	23901.9	23876.3	23258.8	22858.6	22665.5
10°	23722.9	23515.8	22460.9	21581.3	21195.1
12.5°	23467.2	23040.1	21380.5	19836.0	19181.4
15°	23174.4	22449.4	20025.2	17696.9	16789.1
17.5°	22824.1	21759.0	18405.3	15403.1	14205.1
20°	22409.8	20925.4	16576.9	12966.2	11576.3
22.5°	21946.9	19963.9	14619.4	10536.8	9046.0
25°	21420.2	18887.3	12606.9	8213.6	6745.8
27.5°	20851.2	17691.8	10605.9	6137.2	4798.5
30°	20219.6	16397.9	8694.4	4425.2	3312.8
32.5°	19530.4	15022.1	6918.4	3112.1	2265.7
35°	18779.9	13583.7	5376.5	2168.5	1565.0
37.5°	18011.5	12115.9	4060.8	1533.0	1122.6
40°	17145.9	10653.2	3020.0	1122.6	854.1
42.5°	16216.3	9218.6	2235.0	864.3	691.7
45°	15169.2	7841.6	1664.7	708.3	589.4
47.5°	14154.0	6557.9	1264.5	603.5	512.7
50°	13005.8	5399.5	989.6	526.8	450.1
52.5°	11787.3	4380.4	803.0	464.1	396.4
55°	10503.6	3505.9	670.0	411.7	350.3
57.5°	9203.3	2777.1	572.8	367.0	312.0
60°	7868.4	2220.9	497.4	328.6	278.7
62.5°	6565.5	1776.0	434.7	295.4	249.3
65°	5349.6	1439.7	383.6	264.7	222.5
67.5°	4225.7	1137.9	358.0	237.8	200.7
70°	3261.7	886.1	332.4	212.2	179.0
72.5°	2471.5	680.2	294.1	189.2	158.5
75°	1815.6	526.8	239.1	166.2	139.4
77.5°	1299.0	405.3	194.3	144.5	120.2
80°	891.2	301.7	159.8	124.0	102.3
82.5°	579.2	213.5	129.1	102.3	84.4
85°	335.0	139.4	97.2	80.6	66.5
87.5°	144.5	76.7	66.5	60.1	51.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)