

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-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 (P23767)
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-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

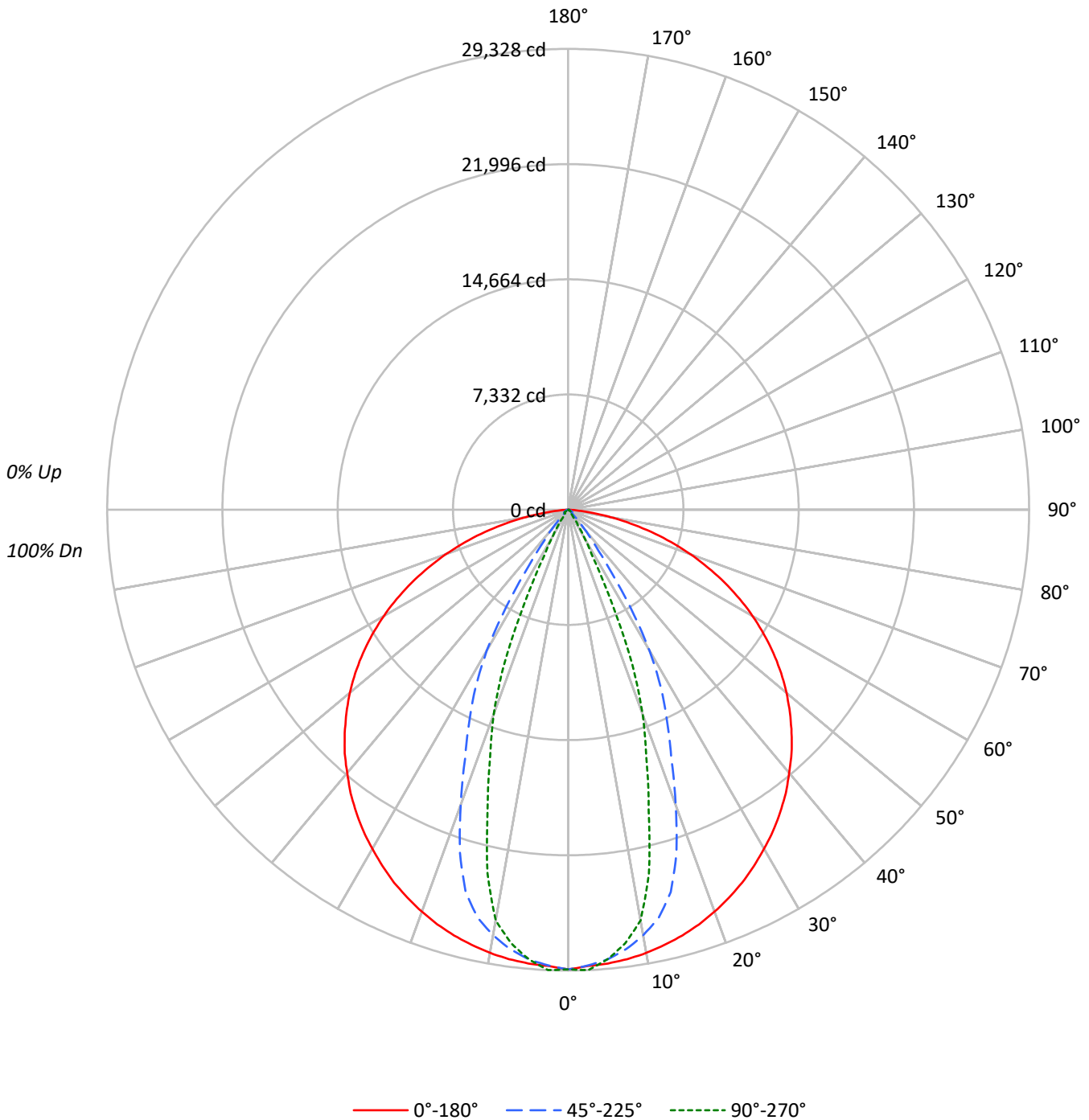
Lumens per Lamp: N/A
Luminaire Lumens: 31096.0 lumens
Efficiency: N/A
Efficacy: 161.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39364	39364	39364
5°	39154	38808	38791
10°	39129	37564	36246
15°	39074	35094	27585
20°	38983	28609	19856
25°	38884	22121	9781
30°	38712	16077	3172
35°	38621	7132	816
40°	38418	2897	550
45°	38246	813	585
50°	37948	577	650
55°	37402	686	278
60°	36479	764	168
65°	34978	487	199
70°	32495	433	246
75°	28427	325	340
80°	21255	399	485
85°	10529	516	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2715.0	8.7
10°-20°	6789.0	21.8
20°-30°	7353.5	23.6
30°-40°	5445.6	17.5
40°-50°	3922.2	12.6
50°-60°	2428.6	7.8
60°-70°	1493.6	4.8
70°-80°	787.3	2.5
80°-90°	161.1	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°	16857.5	54.2
0°-40°	22303.1	71.7
0°-60°	28653.9	92.1
0°-90°	31096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29256	29256	29256	29256	29256	
5°	28989	29096	28733	28754	28721	###
15°	28051	27400	25194	21425	19804	7919
25°	26192	23991	14900	9374	6589	12068
35°	23513	16576	4342	1022	497	14710
45°	20100	9339	427	309	308	15501
55°	15944	1923	292	264	118	14233
65°	10987	203	153	97	63	10840
75°	5468	47	63	82	65	5776
85°	682	18	33	50	42	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29256.5	29256.5	29256.5	29256.5	29256.5
2.5°	29068.6	29253.7	29035.2	29198.1	29327.5
5°	28989.3	29096.5	28733.2	28754.1	28720.7
7.5°	28850.1	28825.1	28214.1	27946.9	27830.0
10°	28640.0	28474.4	27494.5	26936.4	26530.0
12.5°	28368.6	27998.4	26596.8	24822.3	23720.0
15°	28051.3	27399.9	25193.9	21425.0	19803.6
17.5°	27672.7	26749.9	22900.3	17956.7	16509.3
20°	27225.9	26024.8	19980.3	15277.5	13867.7
22.5°	26727.7	25142.4	17143.9	12697.2	10686.1
25°	26191.8	23991.4	14900.4	9373.6	6588.7
27.5°	25572.5	22512.0	12796.0	5521.2	3362.5
30°	24917.0	20730.5	10347.9	2970.1	2041.7
32.5°	24255.9	18711.0	7322.1	1855.2	1158.0
35°	23512.7	16576.1	4342.3	1021.6	496.9
37.5°	22737.4	14619.2	2566.4	464.9	318.7
40°	21873.2	12830.8	1649.3	309.0	313.1
42.5°	21038.1	11163.4	928.3	304.8	310.4
45°	20100.0	9338.8	427.3	309.0	307.6
47.5°	19130.0	7447.4	277.0	311.8	311.8
50°	18129.3	5324.9	275.6	318.7	310.4
52.5°	17072.9	3322.2	286.7	317.3	254.7
55°	15944.2	1923.4	292.3	264.4	118.3
57.5°	14775.1	1134.3	295.1	151.7	66.8
60°	13555.9	627.7	283.9	112.7	62.6
62.5°	12299.1	299.2	224.1	105.8	61.2
65°	10986.7	203.2	153.1	97.4	62.6
67.5°	9624.1	157.3	121.1	91.9	64.0
70°	8260.2	116.9	110.0	91.9	62.6
72.5°	6874.0	79.3	91.9	93.2	62.6
75°	5468.3	47.3	62.6	82.1	65.4
77.5°	4075.1	29.2	48.7	84.9	79.3
80°	2743.2	25.1	51.5	79.3	62.6
82.5°	1610.3	22.3	50.1	61.2	50.1
85°	682.0	18.1	33.4	50.1	41.8
87.5°	128.0	15.3	26.4	40.4	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)