

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-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

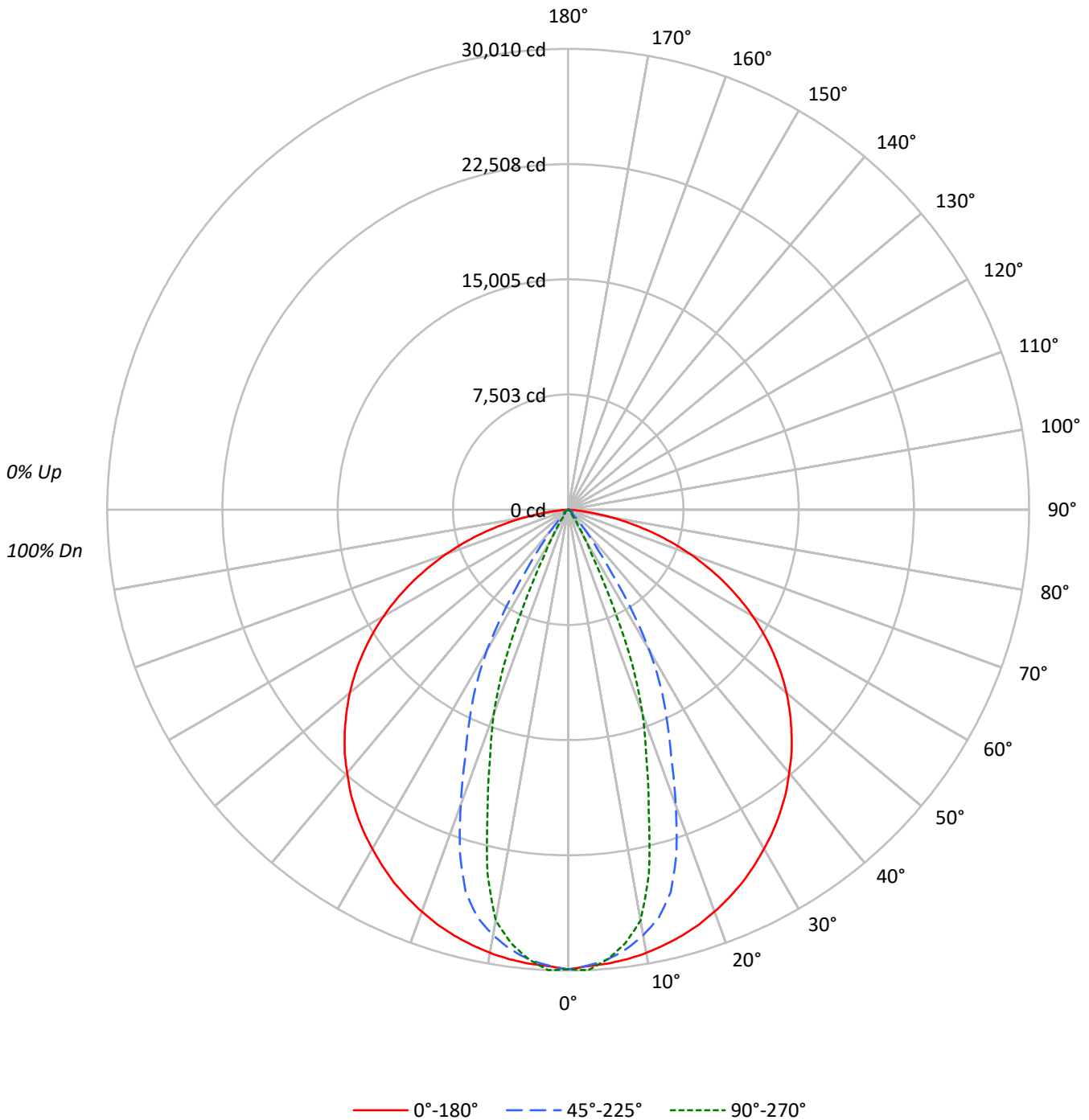
Lumens per Lamp: N/A
Luminaire Lumens: 31820.0 lumens
Efficiency: N/A
Efficacy: 176.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	40281	40281	40281
5°	40065	39711	39694
10°	40040	38439	37090
15°	39984	35911	28228
20°	39891	29275	20319
25°	39789	22636	10009
30°	39613	16451	3246
35°	39520	7298	835
40°	39313	2964	563
45°	39137	832	599
50°	38832	590	665
55°	38272	702	284
60°	37328	782	172
65°	35793	499	204
70°	33252	443	252
75°	29089	333	348
80°	21750	408	497
85°	10772	528	659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2778.3	8.7
10°-20°	6947.0	21.8
20°-30°	7524.7	23.6
30°-40°	5572.4	17.5
40°-50°	4013.6	12.6
50°-60°	2485.1	7.8
60°-70°	1528.3	4.8
70°-80°	805.7	2.5
80°-90°	164.9	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°	17250.0	54.2
0°-40°	22822.4	71.7
0°-60°	29321.1	92.1
0°-90°	31820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29938	29938	29938	29938	29938	
5°	29664	29774	29402	29424	29389	###
15°	28704	28038	25780	21924	20265	8103
25°	26802	24550	15247	9592	6742	12349
35°	24060	16962	4443	1045	508	15052
45°	20568	9556	437	316	315	15862
55°	16315	1968	299	271	121	14565
65°	11242	208	157	100	64	11092
75°	5596	48	64	84	67	5910
85°	698	18	34	51	43	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29937.7	29937.7	29937.7	29937.7	29937.7
2.5°	29745.4	29934.9	29711.3	29877.9	30010.3
5°	29664.3	29773.9	29402.2	29423.6	29389.4
7.5°	29521.8	29496.2	28871.0	28597.5	28477.9
10°	29306.8	29137.3	28134.7	27563.6	27147.7
12.5°	29029.1	28650.2	27216.1	25400.3	24272.3
15°	28704.4	28037.8	25780.5	21923.8	20264.7
17.5°	28317.0	27372.8	23433.5	18374.8	16893.6
20°	27859.8	26630.8	20445.5	15633.2	14190.5
22.5°	27350.0	25727.8	17543.1	12992.8	10934.9
25°	26801.7	24550.0	15247.3	9591.9	6742.1
27.5°	26167.9	23036.1	13093.9	5649.7	3440.8
30°	25497.1	21213.2	10588.8	3039.2	2089.3
32.5°	24820.6	19146.7	7492.6	1898.4	1184.9
35°	24060.1	16962.0	4443.4	1045.3	508.4
37.5°	23266.8	14959.6	2626.2	475.7	326.1
40°	22382.4	13129.5	1687.7	316.2	320.4
42.5°	21527.9	11423.4	949.9	311.9	317.6
45°	20568.0	9556.3	437.2	316.2	314.7
47.5°	19575.4	7620.8	283.4	319.0	319.0
50°	18551.4	5448.9	282.0	326.1	317.6
52.5°	17470.4	3399.5	293.4	324.7	260.6
55°	16315.4	1968.2	299.1	270.6	121.1
57.5°	15119.1	1160.7	301.9	155.2	68.4
60°	13871.5	642.3	290.5	115.4	64.1
62.5°	12585.5	306.2	229.3	108.2	62.7
65°	11242.5	207.9	156.7	99.7	64.1
67.5°	9848.2	160.9	123.9	94.0	65.5
70°	8452.5	119.6	112.5	94.0	64.1
72.5°	7034.0	81.2	94.0	95.4	64.1
75°	5595.6	48.4	64.1	84.0	66.9
77.5°	4170.0	29.9	49.8	86.9	81.2
80°	2807.1	25.6	52.7	81.2	64.1
82.5°	1647.8	22.8	51.3	62.7	51.3
85°	697.8	18.5	34.2	51.3	42.7
87.5°	131.0	15.7	27.1	41.3	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)