

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-W-A-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-W-A-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

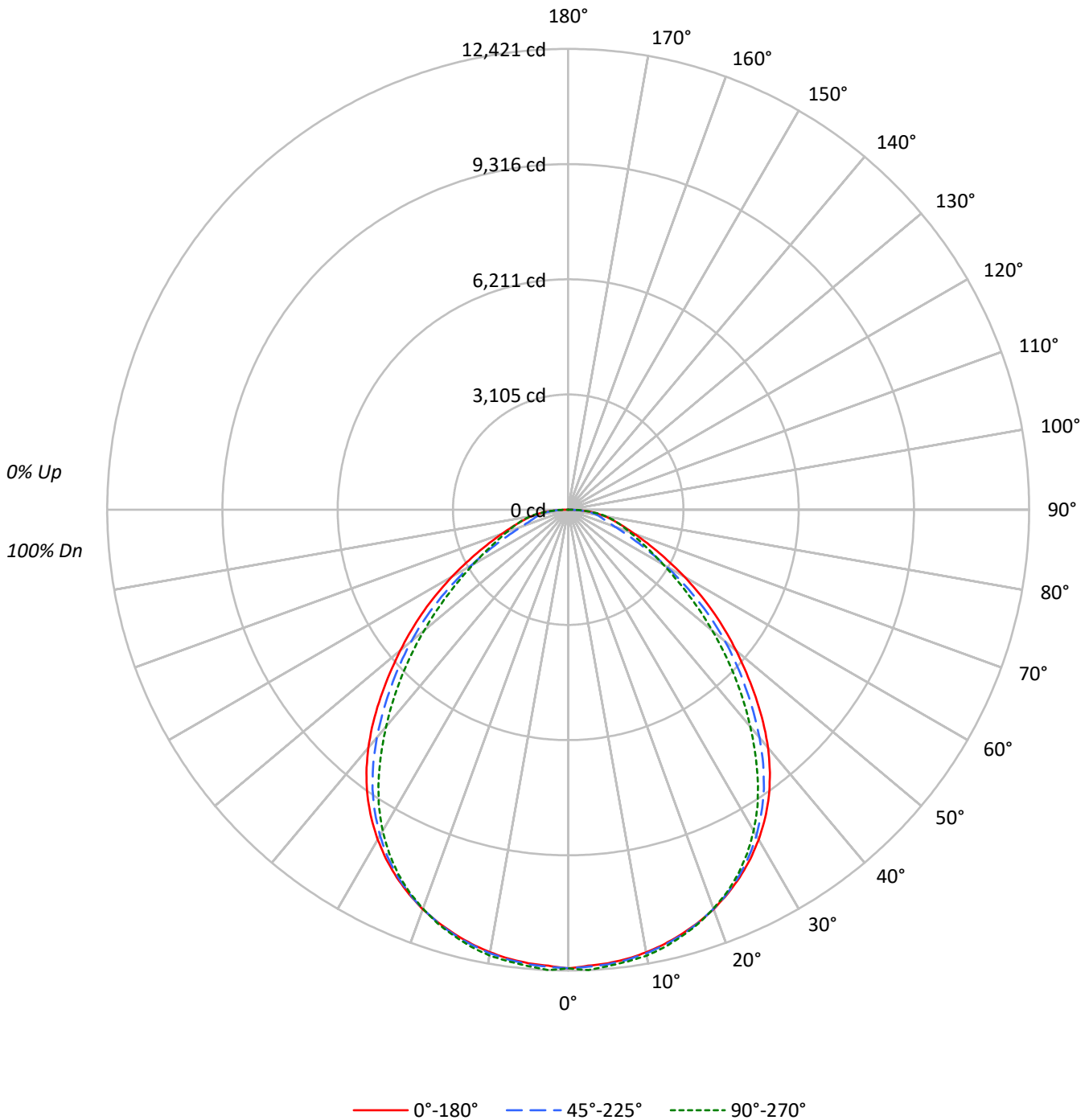
Lumens per Lamp: N/A
Luminaire Lumens: 28395.0 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16631	16631	16631
5°	16572	16610	16678
10°	16549	16587	16671
15°	16494	16527	16566
20°	16407	16395	16383
25°	16229	16173	16082
30°	15949	15756	15527
35°	15486	15096	14631
40°	14715	14084	13408
45°	13594	12836	12058
50°	12358	11558	10607
55°	11112	10006	9169
60°	9723	8178	7956
65°	8384	6431	7181
70°	7475	5248	6921
75°	7160	5124	7232
80°	7744	6059	8058
85°	8695	7296	8781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1171.5	4.1
10°-20°	3352.7	11.8
20°-30°	5015.4	17.7
30°-40°	5722.1	20.2
40°-50°	5208.7	18.3
50°-60°	3824.7	13.5
60°-70°	2258.3	8.0
70°-80°	1294.2	4.6
80°-90°	547.2	1.9
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°	9539.6	33.6
0°-40°	15261.8	53.7
0°-60°	24295.2	85.6
0°-90°	28395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12361	12361	12361	12361	12361	
5°	12270	12347	12298	12347	12348	###
15°	11841	11906	11864	11906	11892	3341
25°	10932	10971	10894	10890	10833	5032
35°	9428	9382	9191	9033	8908	5874
45°	7144	7103	6746	6443	6337	5506
55°	4737	4518	4266	3956	3909	4236
65°	2633	2299	2020	2161	2256	2650
75°	1377	1181	986	1285	1391	1485
85°	563	520	473	558	569	589
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12360.8	12360.8	12360.8	12360.8	12360.8
2.5°	12303.7	12374.8	12330.2	12378.9	12420.8
5°	12270.2	12346.9	12298.1	12346.9	12348.3
7.5°	12208.9	12280.0	12232.6	12285.5	12280.0
10°	12112.7	12183.8	12140.6	12197.7	12201.9
12.5°	11990.0	12058.3	12013.7	12079.2	12068.1
15°	11840.9	11906.4	11864.5	11906.4	11892.4
17.5°	11665.2	11725.1	11670.8	11716.8	11693.1
20°	11458.9	11509.1	11450.5	11493.7	11442.2
22.5°	11212.1	11256.8	11195.4	11219.1	11166.1
25°	10931.9	10971.0	10894.3	10890.1	10833.0
27.5°	10619.7	10640.6	10543.0	10509.6	10444.0
30°	10265.6	10271.2	10141.5	10078.8	9993.8
32.5°	9868.3	9854.4	9688.5	9595.1	9490.5
35°	9427.8	9381.8	9190.8	9033.3	8907.8
37.5°	8930.1	8857.6	8629.0	8396.2	8276.3
40°	8378.1	8293.1	8018.4	7729.9	7633.7
42.5°	7777.3	7704.8	7381.4	7080.3	6985.5
45°	7144.4	7102.6	6745.7	6443.2	6337.2
47.5°	6511.5	6480.8	6132.3	5824.2	5696.0
50°	5903.7	5836.8	5521.7	5184.4	5067.3
52.5°	5314.0	5177.4	4900.0	4554.3	4467.9
55°	4736.9	4518.0	4265.7	3956.2	3908.8
57.5°	4165.3	3882.4	3637.0	3405.6	3404.2
60°	3613.3	3289.9	3039.0	2917.7	2956.7
62.5°	3096.1	2764.4	2492.5	2500.9	2572.0
65°	2633.3	2298.7	2019.9	2160.7	2255.5
67.5°	2236.0	1916.8	1633.8	1895.9	1986.5
70°	1900.1	1611.5	1334.1	1661.7	1759.3
72.5°	1617.1	1374.5	1125.0	1466.5	1565.5
75°	1377.3	1180.7	985.6	1285.3	1391.2
77.5°	1182.1	1007.9	883.8	1112.4	1222.6
80°	999.5	846.2	782.0	945.1	1039.9
82.5°	791.8	685.9	648.2	768.1	816.9
85°	563.2	520.0	472.6	557.6	568.8
87.5°	309.5	320.6	264.9	320.6	322.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)