

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-L740-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-L740-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

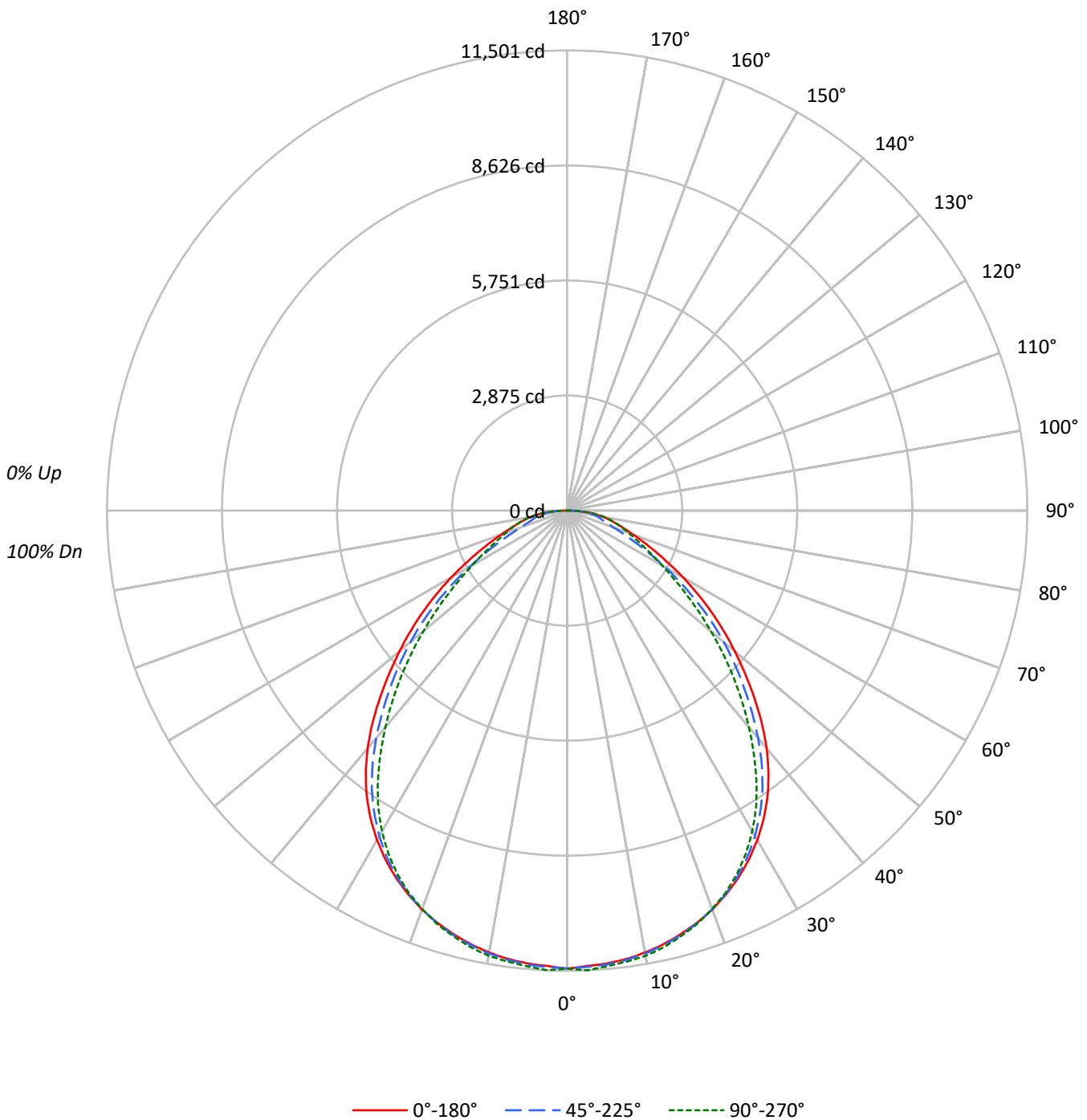
Lumens per Lamp: N/A  
Luminaire Lumens: 26292.0 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15400	15400	15400
5°	15345	15380	15443
10°	15323	15359	15436
15°	15272	15303	15339
20°	15192	15181	15170
25°	15027	14976	14891
30°	14768	14589	14377
35°	14339	13978	13548
40°	13626	13041	12415
45°	12588	11885	11165
50°	11443	10702	9821
55°	10289	9265	8490
60°	9003	7572	7367
65°	7763	5954	6649
70°	6921	4860	6408
75°	6630	4744	6697
80°	7171	5611	7461
85°	8051	6756	8130



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1084.7	4.1
10°-20°	3104.4	11.8
20°-30°	4643.9	17.7
30°-40°	5298.3	20.2
40°-50°	4823.0	18.3
50°-60°	3541.5	13.5
60°-70°	2091.1	8.0
70°-80°	1198.3	4.6
80°-90°	506.7	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°	8833.1	33.6
0°-40°	14131.5	53.7
0°-60°	22495.9	85.6
0°-90°	26292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26292.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11445	11445	11445	11445	11445	
5°	11362	11432	11387	11432	11434	###
15°	10964	11025	10986	11025	11012	3094
25°	10122	10158	10087	10084	10031	4659
35°	8730	8687	8510	8364	8248	5439
45°	6615	6576	6246	5966	5868	5098
55°	4386	4183	3950	3663	3619	3922
65°	2438	2128	1870	2001	2088	2454
75°	1275	1093	913	1190	1288	1375
85°	522	482	438	516	527	545
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11445.4	11445.4	11445.4	11445.4	11445.4
2.5°	11392.4	11458.3	11417.0	11462.1	11500.9
5°	11361.5	11432.4	11387.3	11432.4	11433.7
7.5°	11304.7	11370.5	11326.6	11375.6	11370.5
10°	11215.6	11281.4	11241.4	11294.3	11298.2
12.5°	11102.0	11165.3	11123.9	11184.6	11174.3
15°	10963.9	11024.6	10985.8	11024.6	11011.6
17.5°	10801.3	10856.8	10806.4	10849.0	10827.1
20°	10610.2	10656.7	10602.5	10642.5	10594.7
22.5°	10381.7	10423.1	10366.3	10388.2	10339.2
25°	10122.3	10158.4	10087.4	10083.6	10030.7
27.5°	9833.2	9852.5	9762.2	9731.2	9670.5
30°	9505.3	9510.5	9390.4	9332.3	9253.6
32.5°	9137.4	9124.5	8970.9	8884.4	8787.6
35°	8729.5	8687.0	8510.1	8364.3	8248.1
37.5°	8268.7	8201.6	7989.9	7774.4	7663.4
40°	7757.6	7678.9	7424.6	7157.4	7068.3
42.5°	7201.3	7134.1	6834.7	6555.9	6468.1
45°	6615.3	6576.5	6246.1	5966.0	5867.9
47.5°	6029.2	6000.8	5678.1	5392.9	5274.1
50°	5466.5	5404.5	5112.8	4800.4	4692.0
52.5°	4920.5	4794.0	4537.1	4217.0	4137.0
55°	4386.1	4183.4	3949.8	3663.2	3619.3
57.5°	3856.9	3594.8	3367.6	3153.4	3152.1
60°	3345.7	3046.2	2813.9	2701.6	2737.7
62.5°	2866.8	2559.6	2307.9	2315.7	2381.5
65°	2438.3	2128.5	1870.3	2000.7	2088.5
67.5°	2070.4	1774.8	1512.8	1755.5	1839.4
70°	1759.3	1492.1	1235.3	1538.6	1629.0
72.5°	1497.3	1272.7	1041.7	1357.9	1449.5
75°	1275.3	1093.3	912.6	1190.1	1288.2
77.5°	1094.6	933.2	818.4	1030.0	1132.0
80°	925.5	783.5	724.1	875.1	962.9
82.5°	733.2	635.1	600.2	711.2	756.4
85°	521.5	481.5	437.6	516.3	526.6
87.5°	286.6	296.9	245.2	296.9	298.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)