

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-CLWG-UNV-L840-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 (P33385)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30SE-W-CLWG-UNV-L840-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

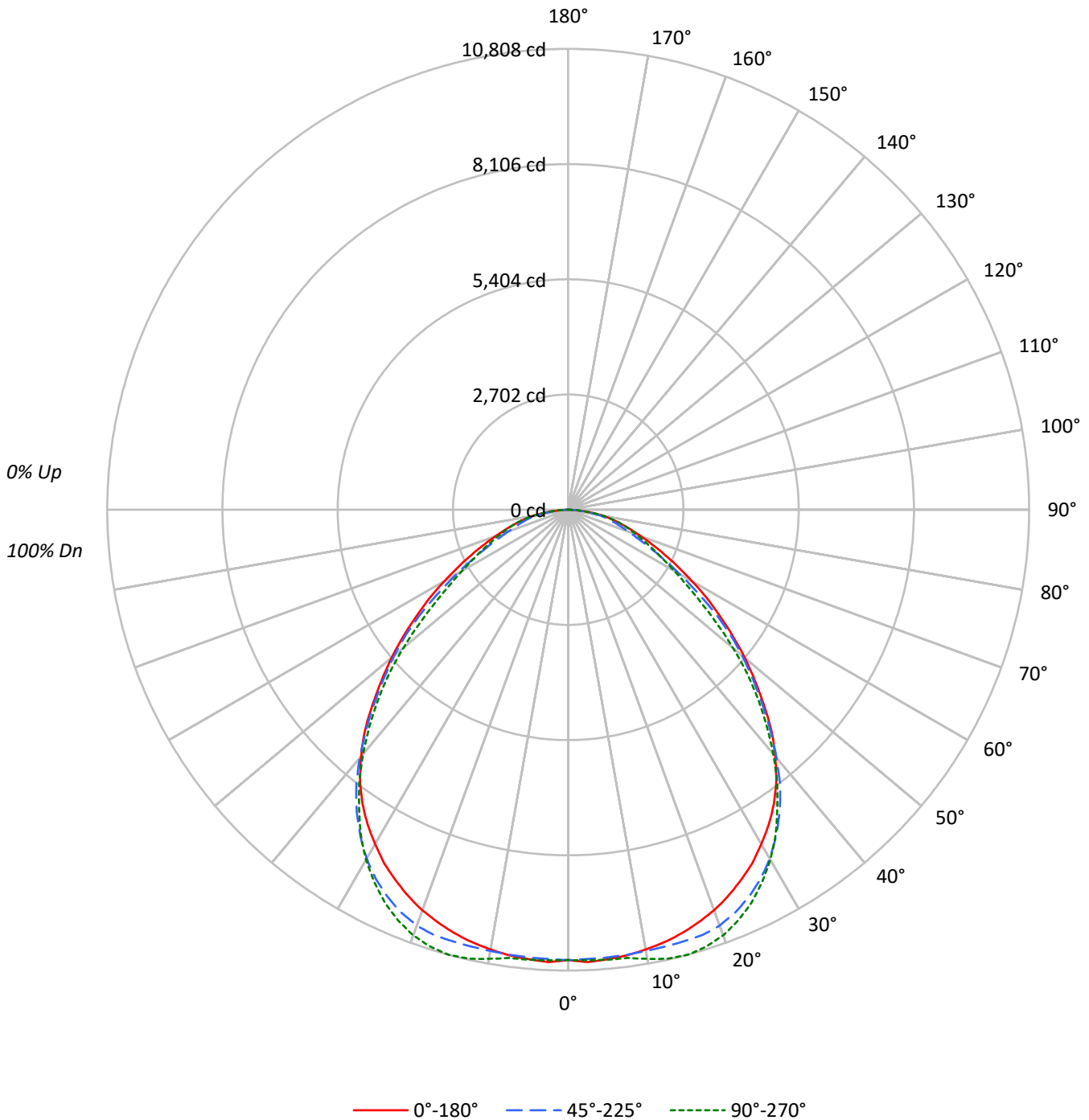
Lumens per Lamp: N/A  
Luminaire Lumens: 26342.0 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

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

	0°	45°	90°
0°	14212	14212	14212
5°	14295	14236	14306
10°	14308	14356	14613
15°	14326	14595	15054
20°	14316	14862	15209
25°	14229	14876	15094
30°	14065	14679	14726
35°	13814	14203	14033
40°	13269	13350	13140
45°	12364	12234	11985
50°	11320	11137	10567
55°	10168	9791	8934
60°	9017	8101	7712
65°	7945	6731	7000
70°	7106	5841	6666
75°	6657	5679	6742
80°	6481	5742	6417
85°	5173	4542	4710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1006.2	3.8
10°-20°	2963.8	11.3
20°-30°	4559.4	17.3
30°-40°	5321.0	20.2
40°-50°	4944.7	18.8
50°-60°	3665.2	13.9
60°-70°	2240.6	8.5
70°-80°	1276.2	4.8
80°-90°	365.0	1.4
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°	8529.3	32.4
0°-40°	13850.4	52.6
0°-60°	22460.2	85.3
0°-90°	26342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26342.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10562	10562	10562	10562	10562	
5°	10584	10535	10541	10532	10592	###
15°	10284	10279	10478	10685	10808	2903
25°	9584	9658	10020	10105	10167	4415
35°	8410	8476	8647	8576	8544	5240
45°	6498	6536	6430	6329	6299	5007
55°	4334	4226	4174	3877	3809	3890
65°	2496	2267	2114	2171	2199	2497
75°	1280	1201	1092	1245	1297	1370
85°	335	327	294	305	305	386
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10562.4	10562.4	10562.4	10562.4	10562.4
2.5°	10619.6	10559.7	10548.8	10524.2	10578.7
5°	10584.2	10535.1	10540.6	10532.4	10592.4
7.5°	10543.3	10507.9	10529.7	10527.0	10606.0
10°	10472.5	10453.4	10507.9	10567.8	10695.9
12.5°	10393.5	10374.4	10494.3	10646.8	10785.8
15°	10284.5	10279.0	10477.9	10685.0	10807.6
17.5°	10148.3	10156.5	10458.9	10635.9	10744.9
20°	9998.4	10012.1	10379.8	10524.2	10622.3
22.5°	9805.0	9851.3	10227.3	10347.2	10423.4
25°	9584.3	9657.9	10020.2	10104.7	10167.3
27.5°	9347.3	9420.9	9764.1	9807.7	9843.1
30°	9053.1	9156.6	9448.1	9453.6	9478.1
32.5°	8753.4	8846.0	9069.4	9044.9	9050.4
35°	8410.1	8475.5	8647.2	8576.3	8543.6
37.5°	8015.1	8050.5	8159.5	8053.2	8047.8
40°	7554.7	7601.0	7601.0	7453.9	7481.1
42.5°	7064.3	7080.6	7012.5	6873.6	6895.4
45°	6497.6	6535.8	6429.5	6328.7	6298.7
47.5°	5936.4	5974.5	5862.8	5745.7	5693.9
50°	5407.9	5388.8	5320.7	5121.8	5048.3
52.5°	4860.3	4800.3	4773.1	4481.6	4397.1
55°	4334.5	4225.5	4173.7	3876.8	3808.7
57.5°	3846.8	3650.7	3552.6	3321.0	3293.8
60°	3351.0	3130.3	3010.4	2860.6	2866.0
62.5°	2901.5	2669.9	2525.5	2481.9	2501.0
65°	2495.5	2266.7	2114.1	2171.3	2198.6
67.5°	2127.7	1939.8	1768.1	1901.6	1928.9
70°	1806.3	1656.4	1484.8	1680.9	1694.6
72.5°	1539.3	1416.7	1272.3	1457.5	1487.5
75°	1280.5	1201.4	1092.5	1245.0	1296.8
77.5°	1054.3	991.7	929.0	1021.6	1078.9
80°	836.4	773.7	741.0	790.1	828.2
82.5°	591.2	550.3	517.6	553.0	572.1
85°	335.1	326.9	294.2	305.1	305.1
87.5°	76.3	87.2	98.1	89.9	76.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)