

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-L735-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-L735-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: 26943.0 lumens  
Efficiency: N/A  
Efficacy: 139.6 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

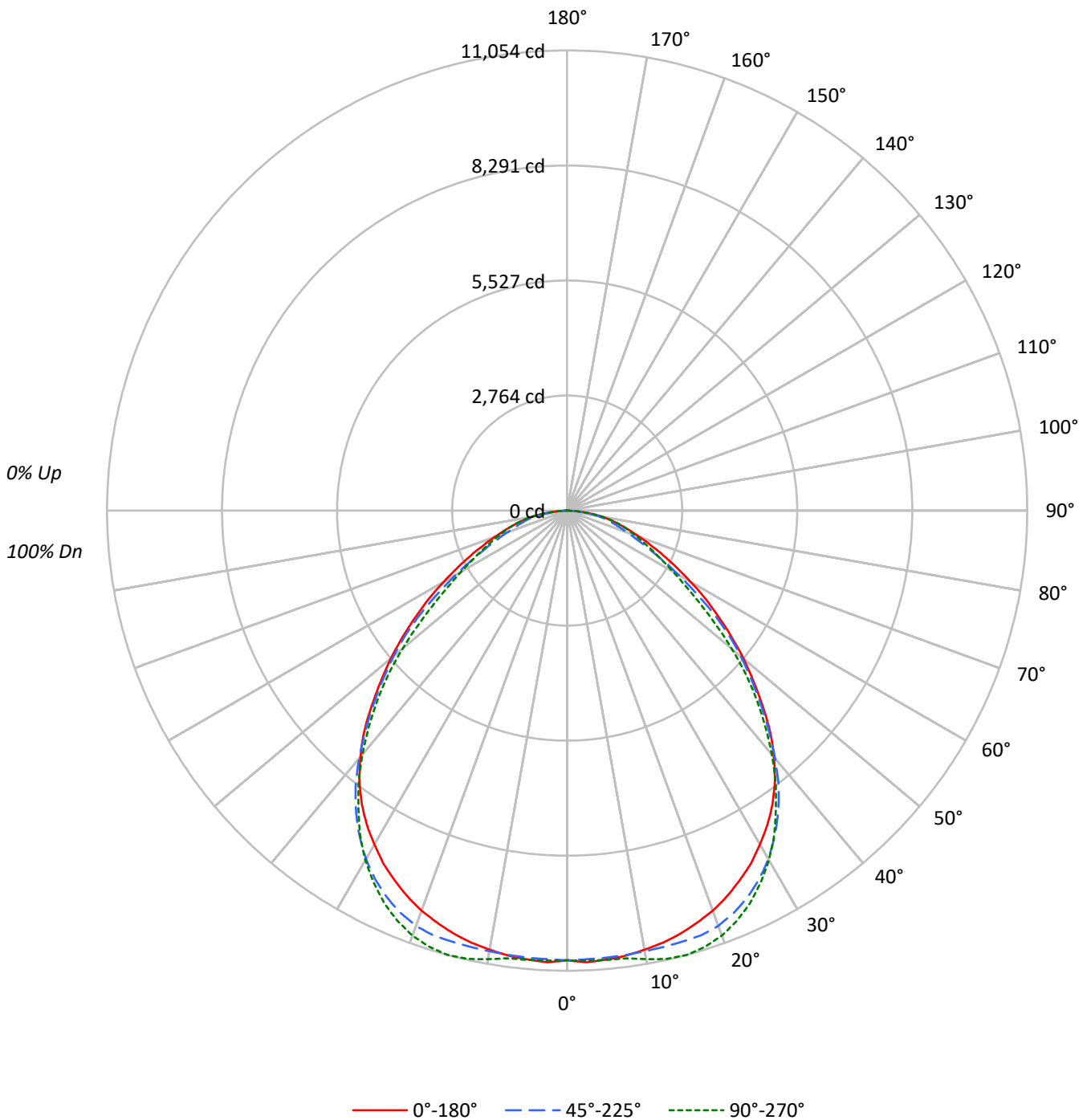
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	14536	14536	14536
5°	14622	14561	14633
10°	14634	14684	14947
15°	14653	14928	15398
20°	14643	15201	15557
25°	14553	15215	15439
30°	14386	15014	15061
35°	14129	14527	14353
40°	13572	13655	13440
45°	12646	12513	12259
50°	11578	11391	10808
55°	10400	10014	9138
60°	9223	8286	7888
65°	8126	6884	7159
70°	7268	5974	6818
75°	6809	5809	6895
80°	6629	5872	6564
85°	5291	4645	4818



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1029.1	3.8
10°-20°	3031.4	11.3
20°-30°	4663.4	17.3
30°-40°	5442.4	20.2
40°-50°	5057.5	18.8
50°-60°	3748.8	13.9
60°-70°	2291.7	8.5
70°-80°	1305.3	4.8
80°-90°	373.3	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°	8723.9	32.4
0°-40°	14166.3	52.6
0°-60°	22972.6	85.3
0°-90°	26943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26943.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10803	10803	10803	10803	10803	
5°	10826	10776	10781	10773	10834	###
15°	10519	10514	10717	10929	11054	2969
25°	9803	9878	10249	10335	10399	4516
35°	8602	8669	8844	8772	8738	5360
45°	6646	6685	6576	6473	6442	5121
55°	4433	4322	4269	3965	3896	3979
65°	2552	2318	2162	2221	2249	2554
75°	1310	1229	1117	1273	1326	1402
85°	343	334	301	312	312	395
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10803.4	10803.4	10803.4	10803.4	10803.4
2.5°	10861.9	10800.6	10789.4	10764.4	10820.1
5°	10825.7	10775.5	10781.1	10772.7	10834.0
7.5°	10783.9	10747.6	10769.9	10767.1	10848.0
10°	10711.4	10691.9	10747.6	10808.9	10939.9
12.5°	10630.6	10611.1	10733.7	10889.7	11031.9
15°	10519.1	10513.6	10717.0	10928.8	11054.2
17.5°	10379.8	10388.2	10697.5	10878.6	10990.1
20°	10226.6	10240.5	10616.7	10764.4	10864.7
22.5°	10028.7	10076.1	10460.6	10583.2	10661.3
25°	9803.0	9878.2	10248.8	10335.2	10399.3
27.5°	9560.6	9635.8	9986.9	10031.5	10067.7
30°	9259.6	9365.5	9663.7	9669.2	9694.3
32.5°	8953.1	9047.9	9276.3	9251.3	9256.8
35°	8602.0	8668.9	8844.4	8772.0	8738.5
37.5°	8198.0	8234.2	8345.6	8237.0	8231.4
40°	7727.0	7774.4	7774.4	7623.9	7651.8
42.5°	7225.5	7242.2	7172.5	7030.4	7052.7
45°	6645.9	6684.9	6576.2	6473.1	6442.5
47.5°	6071.8	6110.9	5996.6	5876.8	5823.8
50°	5531.3	5511.8	5442.1	5238.7	5163.4
52.5°	4971.2	4909.9	4882.0	4583.8	4497.5
55°	4433.4	4321.9	4269.0	3965.2	3895.6
57.5°	3934.6	3733.9	3633.6	3396.8	3368.9
60°	3427.4	3201.7	3079.1	2925.9	2931.4
62.5°	2967.7	2730.8	2583.1	2538.5	2558.0
65°	2552.5	2318.4	2162.3	2220.9	2248.7
67.5°	2176.3	1984.0	1808.5	1945.0	1972.9
70°	1847.5	1694.2	1518.7	1719.3	1733.2
72.5°	1574.4	1449.0	1301.3	1490.8	1521.4
75°	1309.7	1228.9	1117.4	1273.4	1326.4
77.5°	1078.4	1014.3	950.2	1044.9	1103.5
80°	855.5	791.4	757.9	808.1	847.1
82.5°	604.7	562.9	529.4	565.7	585.2
85°	342.7	334.4	300.9	312.1	312.1
87.5°	78.0	89.2	100.3	92.0	78.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)