

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-CLI-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 (P23766)  
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-CLI-UNV-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

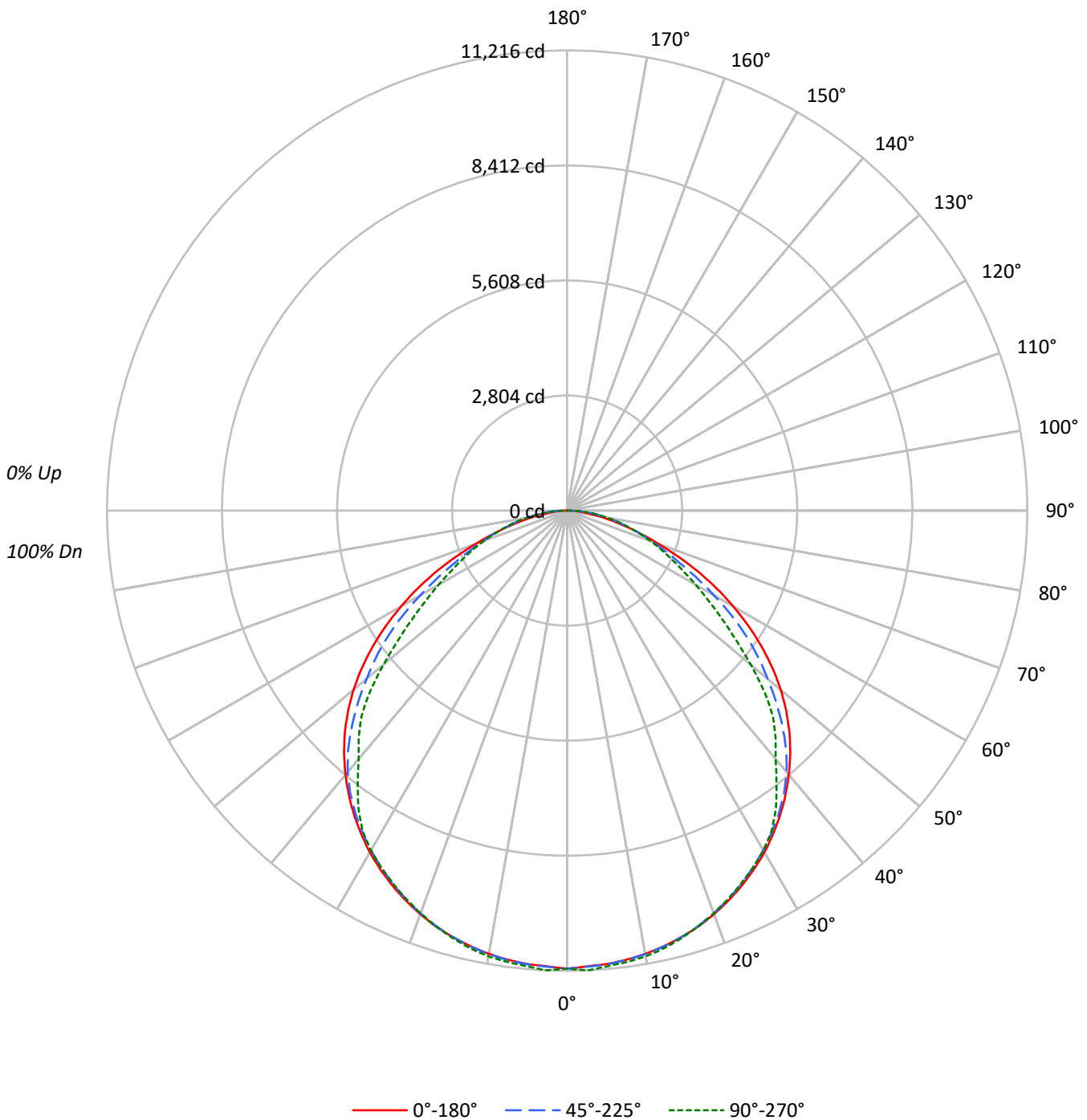
Lumens per Lamp: N/A  
Luminaire Lumens: 29998.0 lumens  
Efficiency: N/A  
Efficacy: 155.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	15023	15023	15023
5°	14983	14993	15060
10°	14991	14998	15077
15°	14993	14991	15026
20°	14989	14955	14958
25°	14966	14910	14893
30°	14942	14852	14861
35°	14872	14780	14570
40°	14766	14615	13878
45°	14579	14112	13495
50°	14228	13361	12222
55°	13580	12495	10807
60°	12603	11149	9746
65°	11202	9653	8961
70°	9296	8627	8447
75°	7519	7895	7992
80°	5972	7551	7519
85°	4676	8111	7739



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1058.9	3.5
10°-20°	3045.7	10.2
20°-30°	4644.2	15.5
30°-40°	5618.8	18.7
40°-50°	5691.4	19.0
50°-60°	4704.0	15.7
60°-70°	3106.9	10.4
70°-80°	1620.1	5.4
80°-90°	507.9	1.7
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°	8748.8	29.2
0°-40°	14367.7	47.9
0°-60°	24763.1	82.5
0°-90°	29998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29998.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11165	11165	11165	11165	11165	
5°	11093	11160	11101	11149	11151	###
15°	10763	10818	10762	10796	10787	3039
25°	10081	10121	10044	10069	10032	4648
35°	9054	9066	8998	8986	8871	5663
45°	7662	7642	7416	7186	7092	5900
55°	5789	5703	5327	4809	4607	5160
65°	3518	3417	3032	2835	2815	3475
75°	1446	1472	1519	1539	1537	1576
85°	303	390	525	521	501	368
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11165.4	11165.4	11165.4	11165.4	11165.4
2.5°	11118.5	11184.2	11129.2	11177.5	11216.4
5°	11093.0	11160.1	11101.1	11149.3	11150.7
7.5°	11043.5	11110.5	11050.2	11098.4	11097.1
10°	10972.4	11035.4	10977.8	11035.4	11035.4
12.5°	10875.9	10937.6	10881.3	10934.9	10926.8
15°	10763.3	10818.3	10762.0	10795.5	10787.4
17.5°	10630.6	10680.2	10617.2	10645.4	10629.3
20°	10468.4	10514.0	10444.3	10480.5	10447.0
22.5°	10286.1	10329.0	10258.0	10284.8	10247.3
25°	10081.1	10121.3	10043.5	10069.0	10031.5
27.5°	9859.9	9896.1	9809.0	9839.8	9810.3
30°	9617.3	9634.7	9559.6	9599.9	9565.0
32.5°	9346.5	9357.2	9291.6	9327.8	9268.8
35°	9054.3	9066.4	8998.0	8986.0	8870.7
37.5°	8742.0	8747.4	8683.0	8574.5	8384.1
40°	8406.9	8404.2	8321.1	8070.5	7901.6
42.5°	8049.0	8047.7	7901.6	7616.1	7519.6
45°	7661.7	7641.5	7416.4	7185.8	7092.0
47.5°	7246.1	7224.7	6909.7	6726.1	6512.9
50°	6797.1	6759.6	6382.9	6132.3	5838.7
52.5°	6313.2	6255.6	5872.2	5467.4	5190.0
55°	5789.1	5703.3	5326.7	4809.3	4606.9
57.5°	5243.6	5116.3	4750.3	4246.3	4081.5
60°	4683.3	4541.2	4143.1	3729.0	3621.7
62.5°	4106.9	3966.2	3560.1	3247.8	3188.8
65°	3518.5	3416.6	3032.0	2834.9	2814.8
67.5°	2915.3	2879.2	2585.6	2485.1	2477.0
70°	2363.1	2356.4	2192.9	2141.9	2147.3
72.5°	1888.6	1880.6	1856.4	1831.0	1832.3
75°	1446.3	1471.7	1518.7	1538.8	1537.4
77.5°	1079.0	1131.3	1230.5	1270.7	1264.0
80°	770.7	848.5	974.5	1012.0	970.4
82.5°	513.4	595.1	743.9	749.3	715.8
85°	302.9	390.1	525.4	521.4	501.3
87.5°	150.1	234.6	315.0	301.6	288.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)