

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-LD5-30HE-W-CLWG-UNV-L850-ED2-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-LD5-30HE-W-CLWG-UNV-L850-ED2-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**

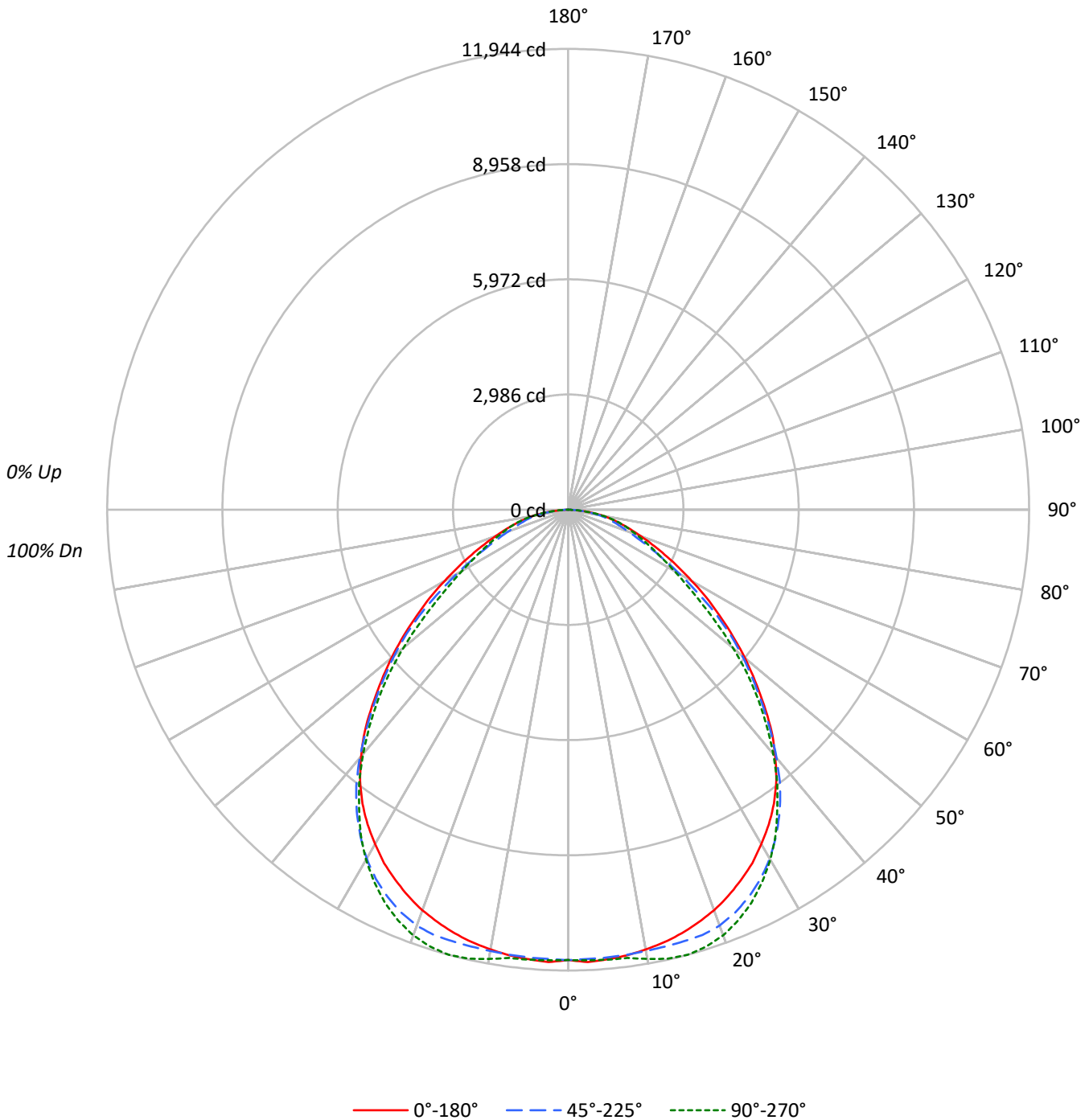
Lumens per Lamp: N/A  
Luminaire Lumens: 29111.0 lumens  
Efficiency: N/A  
Efficacy: 161.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 180  
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					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50	48					48			
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

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

	0°	45°	90°
0°	15705	15705	15705
5°	15798	15733	15810
10°	15812	15866	16149
15°	15832	16129	16637
20°	15821	16425	16808
25°	15724	16440	16681
30°	15544	16222	16273
35°	15266	15696	15508
40°	14664	14754	14521
45°	13663	13520	13245
50°	12510	12308	11678
55°	11237	10820	9873
60°	9965	8953	8523
65°	8780	7438	7735
70°	7853	6455	7367
75°	7356	6276	7450
80°	7162	6345	7092
85°	5717	5020	5206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1111.9	3.8
10°-20°	3275.3	11.3
20°-30°	5038.6	17.3
30°-40°	5880.4	20.2
40°-50°	5464.4	18.8
50°-60°	4050.4	13.9
60°-70°	2476.1	8.5
70°-80°	1410.4	4.8
80°-90°	403.4	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°	9425.9	32.4
0°-40°	15306.3	52.6
0°-60°	24821.2	85.3
0°-90°	29111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29111.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11673	11673	11673	11673	11673	
5°	11697	11643	11649	11640	11706	###
15°	11366	11360	11579	11808	11944	3208
25°	10592	10673	11074	11167	11236	4879
35°	9294	9366	9556	9478	9442	5791
45°	7181	7223	7105	6994	6961	5533
55°	4790	4670	4612	4284	4209	4299
65°	2758	2505	2336	2400	2430	2760
75°	1415	1328	1207	1376	1433	1514
85°	370	361	325	337	337	427
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11672.7	11672.7	11672.7	11672.7	11672.7
2.5°	11735.9	11669.7	11657.6	11630.5	11690.7
5°	11696.8	11642.6	11648.6	11639.6	11705.8
7.5°	11651.6	11612.5	11636.5	11633.5	11720.8
10°	11573.3	11552.2	11612.5	11678.7	11820.2
12.5°	11486.0	11464.9	11597.4	11766.0	11919.6
15°	11365.6	11359.6	11579.3	11808.2	11943.6
17.5°	11215.0	11224.1	11558.3	11754.0	11874.4
20°	11049.4	11064.5	11471.0	11630.5	11738.9
22.5°	10835.7	10886.9	11302.3	11434.8	11519.1
25°	10591.8	10673.1	11073.5	11166.9	11236.1
27.5°	10329.9	10411.2	10790.5	10838.7	10877.8
30°	10004.7	10119.1	10441.3	10447.3	10474.4
32.5°	9673.5	9775.9	10022.8	9995.7	10001.7
35°	9294.2	9366.4	9556.1	9477.8	9441.7
37.5°	8857.6	8896.8	9017.2	8899.8	8893.8
40°	8348.8	8400.0	8400.0	8237.4	8267.5
42.5°	7806.9	7824.9	7749.7	7596.1	7620.2
45°	7180.6	7222.8	7105.4	6994.0	6960.9
47.5°	6560.4	6602.6	6479.1	6349.7	6292.5
50°	5976.3	5955.3	5880.0	5660.2	5578.9
52.5°	5371.2	5304.9	5274.8	4952.7	4859.3
55°	4790.1	4669.7	4612.5	4284.3	4209.0
57.5°	4251.2	4034.4	3926.0	3670.1	3640.0
60°	3703.2	3459.3	3326.9	3161.3	3167.3
62.5°	3206.4	2950.5	2791.0	2742.8	2763.9
65°	2757.8	2504.9	2336.3	2399.6	2429.7
67.5°	2351.4	2143.7	1954.0	2101.5	2131.6
70°	1996.1	1830.5	1640.9	1857.6	1872.7
72.5°	1701.1	1565.6	1406.0	1610.8	1643.9
75°	1415.1	1327.7	1207.3	1375.9	1433.1
77.5°	1165.2	1095.9	1026.7	1129.0	1192.3
80°	924.3	855.1	818.9	873.1	915.3
82.5°	653.3	608.2	572.0	611.2	632.3
85°	370.3	361.3	325.2	337.2	337.2
87.5°	84.3	96.3	108.4	99.4	84.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)