

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-N-CLWG-UNV-L735-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 (P33344)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-N-CLWG-UNV-L735-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

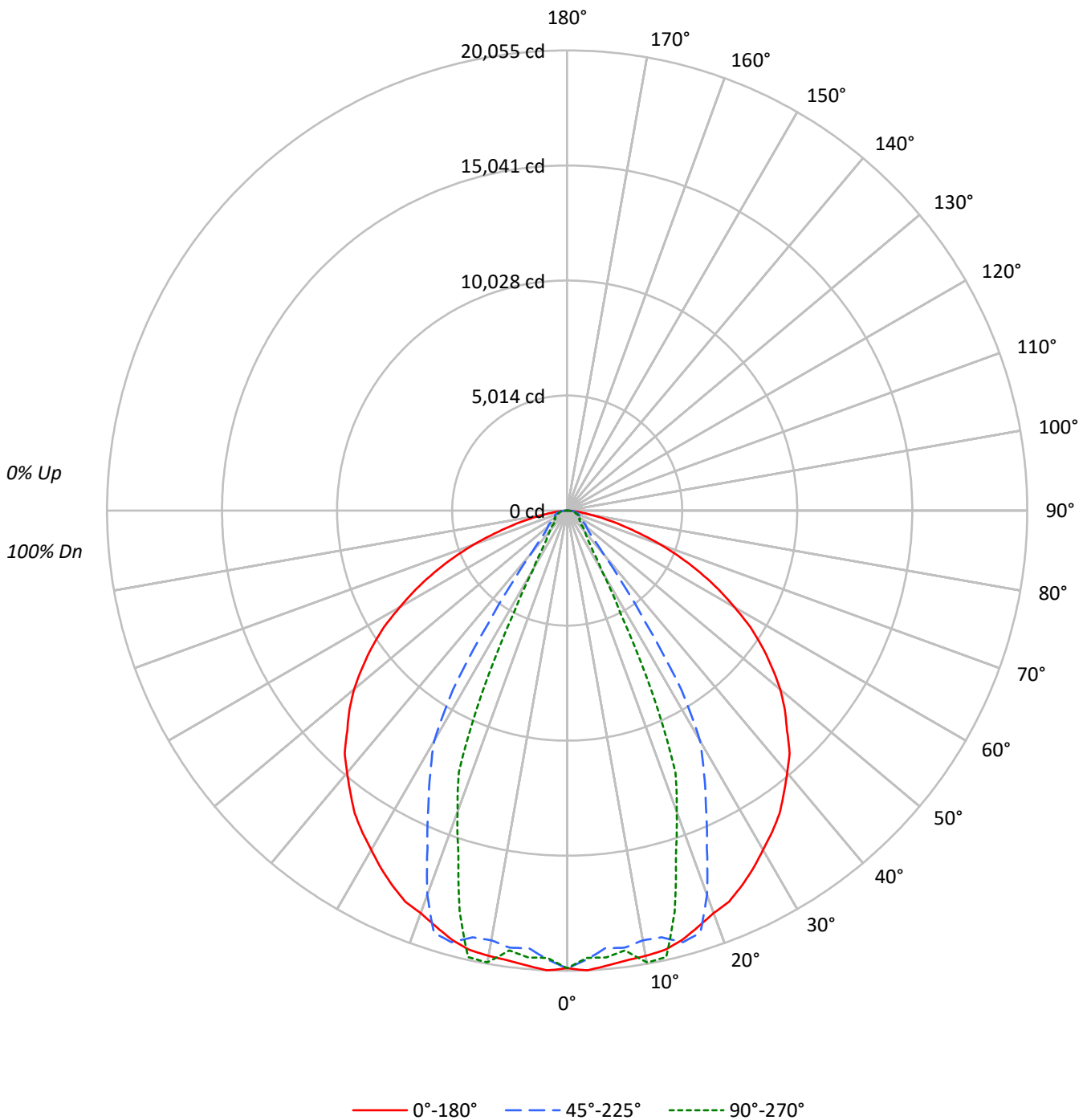
Lumens per Lamp: N/A  
Luminaire Lumens: 26815.0 lumens  
Efficiency: N/A  
Efficacy: 149.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

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

	0°	45°	90°
0°	26838	26838	26838
5°	26882	25858	26403
10°	26921	25982	27316
15°	26981	27121	25208
20°	26726	25509	20008
25°	26764	21266	13070
30°	26524	18016	4695
35°	26496	9759	2641
40°	26196	4255	2068
45°	25791	2629	1622
50°	25389	2290	1531
55°	24392	1987	1498
60°	22631	1780	1610
65°	20342	2011	1759
70°	17060	2163	1814
75°	12754	2467	1964
80°	8009	2865	2239
85°	5334	3591	3279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1848.8	6.9
10°-20°	5220.5	19.5
20°-30°	6392.6	23.8
30°-40°	5020.1	18.7
40°-50°	3722.7	13.9
50°-60°	2266.3	8.5
60°-70°	1357.6	5.1
70°-80°	744.8	2.8
80°-90°	241.6	0.9
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°	13461.8	50.2
0°-40°	18482.0	68.9
0°-60°	24471.0	91.3
0°-90°	26815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19946	19946	19946	19946	19946	
5°	19903	19362	19145	19356	19548	###
15°	19370	18839	19470	18684	18097	5454
25°	18028	18084	14325	11235	8804	8299
35°	16131	14674	5942	1988	1608	10066
45°	13554	9732	1382	1047	852	10481
55°	10398	2682	847	716	638	9253
65°	6389	790	632	594	552	6313
75°	2453	499	474	413	378	2656
85°	346	272	233	214	212	422
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19946.3	19946.3	19946.3	19946.3	19946.3
2.5°	20055.2	19785.0	19578.0	19462.4	19509.5
5°	19903.3	19361.6	19145.2	19356.2	19548.4
7.5°	19771.6	18966.4	19211.0	19229.8	19330.7
10°	19704.4	18928.7	19017.4	19435.5	19993.4
12.5°	19615.6	19016.1	19047.0	19617.0	19931.6
15°	19369.6	18838.7	19470.5	18684.1	18096.6
17.5°	19010.7	18424.6	19293.0	16552.0	15753.5
20°	18665.2	17974.3	17815.7	14744.0	13973.7
22.5°	18442.1	17905.7	15914.9	13137.6	12341.8
25°	18028.1	18084.5	14324.6	11235.4	8803.7
27.5°	17572.4	17663.8	12918.5	7493.0	5043.7
30°	17072.3	17177.1	11595.7	4428.0	3021.9
32.5°	16619.3	16027.8	9260.7	2762.5	2101.1
35°	16131.3	14674.1	5941.7	1988.2	1607.8
37.5°	15517.0	13251.9	3761.3	1572.8	1349.7
40°	14914.7	11974.8	2422.4	1342.9	1177.6
42.5°	14351.5	10922.2	1762.3	1173.6	1063.3
45°	13554.3	9732.5	1381.9	1047.2	852.3
47.5°	12864.7	8337.2	1208.5	885.9	735.3
50°	12129.4	6374.5	1094.2	787.7	731.3
52.5°	11257.0	4169.9	1010.9	754.1	682.9
55°	10398.0	2681.8	846.9	716.5	638.5
57.5°	9470.4	1700.5	747.4	695.0	666.8
60°	8409.8	1146.7	661.4	658.7	598.2
62.5°	7428.5	942.3	638.5	631.8	565.9
65°	6389.3	790.4	631.8	594.2	552.5
67.5°	5351.6	677.5	571.3	543.1	506.8
70°	4336.6	619.7	549.8	537.7	461.1
72.5°	3293.5	510.8	488.0	455.7	383.1
75°	2453.3	498.7	474.5	412.7	377.7
77.5°	1660.2	459.7	431.5	369.7	341.4
80°	1033.7	422.1	369.7	324.0	289.0
82.5°	614.3	352.2	303.8	267.5	244.7
85°	345.5	271.5	232.6	213.7	212.4
87.5°	73.9	98.1	78.0	73.9	52.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)