

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-A-UNV-L750-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 (P23761)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-W-A-UNV-L750-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

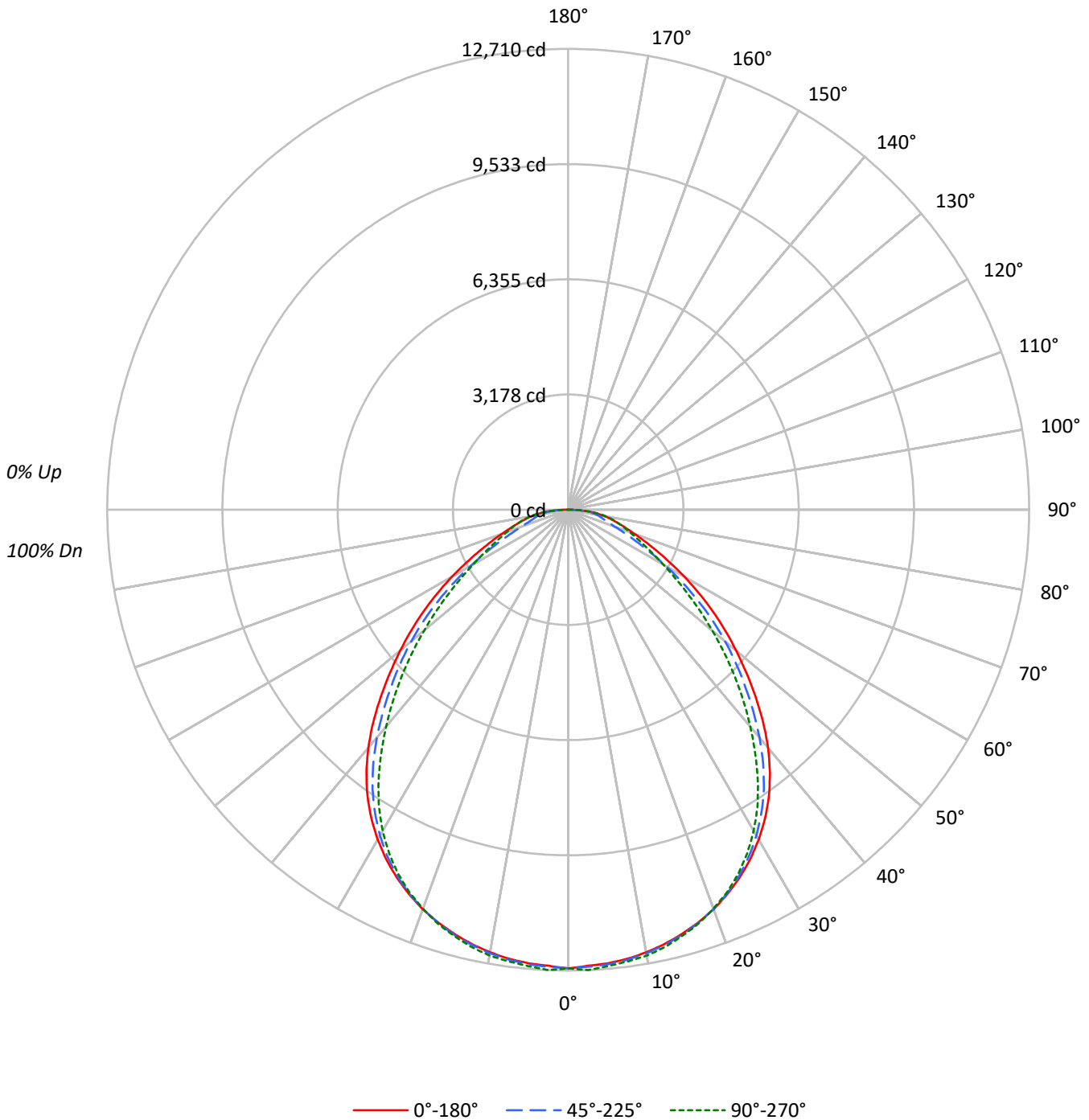
Lumens per Lamp: N/A  
Luminaire Lumens: 29056.0 lumens  
Efficiency: N/A  
Efficacy: 161.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 180  
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	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30					29				

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

	0°	45°	90°
0°	17019	17019	17019
5°	16958	16997	17066
10°	16934	16973	17059
15°	16878	16911	16951
20°	16789	16777	16765
25°	16607	16550	16457
30°	16320	16123	15888
35°	15846	15448	14972
40°	15058	14412	13720
45°	13911	13135	12339
50°	12645	11827	10854
55°	11371	10239	9383
60°	9950	8368	8142
65°	8579	6581	7348
70°	7649	5370	7082
75°	7327	5243	7401
80°	7925	6201	8246
85°	8897	7466	8985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1198.8	4.1
10°-20°	3430.8	11.8
20°-30°	5132.1	17.7
30°-40°	5855.3	20.2
40°-50°	5330.0	18.3
50°-60°	3913.8	13.5
60°-70°	2310.9	8.0
70°-80°	1324.3	4.6
80°-90°	560.0	1.9
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°	9761.7	33.6
0°-40°	15617.1	53.7
0°-60°	24860.8	85.6
0°-90°	29056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29056.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12649	12649	12649	12649	12649	
5°	12556	12634	12584	12634	12636	###
15°	12116	12184	12141	12184	12169	3419
25°	11186	11226	11148	11144	11085	5149
35°	9647	9600	9405	9244	9115	6011
45°	7311	7268	6903	6593	6485	5634
55°	4847	4623	4365	4048	4000	4335
65°	2695	2352	2067	2211	2308	2712
75°	1409	1208	1008	1315	1424	1519
85°	576	532	484	571	582	603
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12648.6	12648.6	12648.6	12648.6	12648.6
2.5°	12590.1	12662.8	12617.2	12667.1	12709.9
5°	12555.8	12634.3	12584.4	12634.3	12635.7
7.5°	12493.1	12565.8	12517.3	12571.5	12565.8
10°	12394.7	12467.4	12423.2	12481.7	12485.9
12.5°	12269.1	12339.0	12293.4	12360.4	12349.0
15°	12116.5	12183.5	12140.7	12183.5	12169.3
17.5°	11936.8	11998.1	11942.5	11989.5	11965.3
20°	11725.6	11777.0	11717.1	11761.3	11708.5
22.5°	11473.2	11518.8	11456.0	11480.3	11426.1
25°	11186.4	11226.4	11147.9	11143.6	11085.1
27.5°	10866.9	10888.3	10788.4	10754.2	10687.2
30°	10504.6	10510.3	10377.6	10313.4	10226.4
32.5°	10098.0	10083.8	9914.0	9818.4	9711.5
35°	9647.3	9600.2	9404.8	9243.6	9115.2
37.5°	9138.0	9063.8	8829.9	8591.7	8469.0
40°	8573.1	8486.1	8205.1	7909.8	7811.4
42.5°	7958.3	7884.1	7553.2	7245.1	7148.1
45°	7310.7	7267.9	6902.7	6593.2	6484.8
47.5°	6663.1	6631.7	6275.1	5959.8	5828.6
50°	6041.1	5972.7	5650.3	5305.1	5185.2
52.5°	5437.7	5297.9	5014.1	4660.3	4571.9
55°	4847.2	4623.2	4365.0	4048.3	3999.8
57.5°	4262.3	3972.7	3721.7	3484.9	3483.5
60°	3697.4	3366.5	3109.7	2985.6	3025.6
62.5°	3168.2	2828.7	2550.5	2559.1	2631.8
65°	2694.6	2352.3	2067.0	2211.0	2308.0
67.5°	2288.1	1961.4	1671.8	1940.0	2032.7
70°	1944.3	1649.0	1365.1	1700.4	1800.2
72.5°	1654.7	1406.5	1151.2	1500.7	1601.9
75°	1409.4	1208.2	1008.5	1315.2	1423.6
77.5°	1209.7	1031.3	904.4	1138.3	1251.0
80°	1022.8	865.9	800.3	967.2	1064.2
82.5°	810.2	701.8	663.3	786.0	835.9
85°	576.3	532.1	483.6	570.6	582.0
87.5°	316.7	328.1	271.0	328.1	329.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)