

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-CLI-UNV-L740-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 (P23769)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30HE-N-CLI-UNV-L740-ED2-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

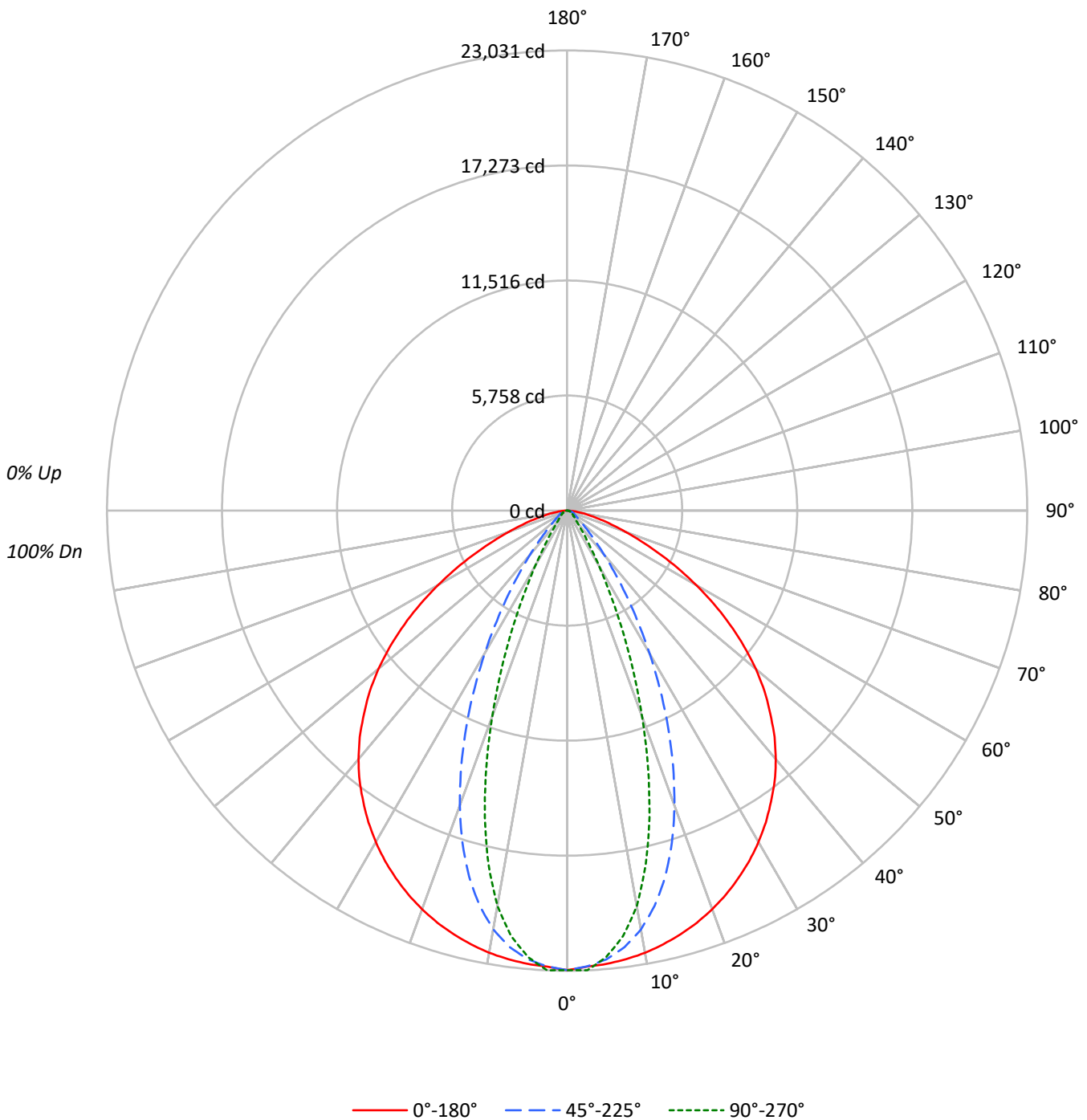
Lumens per Lamp: N/A  
Luminaire Lumens: 25179.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	75		81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69		77	72	68		75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62		71	66	62		69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57		66	61	57		65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52		62	56	52		60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48		58	52	48		57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45		54	49	45		53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42		51	46	42		50	45	42	40

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

	0°	45°	90°
0°	30945	30945	30945
5°	30759	30453	30293
10°	30708	29074	27436
15°	30584	26428	22157
20°	30401	22488	15704
25°	30128	17732	9488
30°	29763	12798	4876
35°	29225	8367	2435
40°	28532	5026	1421
45°	27347	3001	1063
50°	25793	1963	893
55°	23344	1489	779
60°	20061	1268	711
65°	16136	1157	671
70°	12157	1239	667
75°	8943	1177	686
80°	6542	1173	751
85°	4900	1422	973



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2118.1	8.4
10°-20°	5269.4	20.9
20°-30°	5836.6	23.2
30°-40°	4676.2	18.6
40°-50°	3338.2	13.3
50°-60°	2144.2	8.5
60°-70°	1162.0	4.6
70°-80°	496.7	2.0
80°-90°	137.7	0.5
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°	13224.1	52.5
0°-40°	17900.3	71.1
0°-60°	23382.6	92.9
0°-90°	25179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25179.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22999	22999	22999	22999	22999	
5°	22774	22859	22547	22476	22429	###
15°	21956	21269	18973	16767	15907	6195
25°	20294	17894	11944	7782	6391	9349
35°	17793	12870	5094	2054	1483	11125
45°	14372	7429	1577	671	558	11078
55°	9952	3322	635	390	332	8869
65°	5068	1364	363	251	211	5075
75°	1720	499	226	158	132	1911
85°	317	132	92	76	63	388
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22999.2	22999.2	22999.2	22999.2	22999.2
2.5°	22847.8	22990.7	22836.9	22932.6	23030.7
5°	22773.9	22858.7	22547.4	22475.9	22428.6
7.5°	22645.5	22621.2	22036.2	21657.0	21474.1
10°	22475.9	22279.6	21280.3	20446.8	20081.0
12.5°	22233.6	21829.0	20256.6	18793.3	18173.1
15°	21956.2	21269.4	18972.6	16766.7	15906.6
17.5°	21624.3	20615.2	17437.8	14593.5	13458.4
20°	21231.8	19825.4	15705.5	12284.6	10967.8
22.5°	20793.3	18914.4	13850.9	9983.0	8570.5
25°	20294.2	17894.5	11944.2	7781.9	6391.2
27.5°	19755.1	16761.8	10048.4	5814.6	4546.3
30°	19156.7	15535.9	8237.4	4192.6	3138.7
32.5°	18503.8	14232.5	6554.8	2948.5	2146.6
35°	17792.7	12869.7	5093.8	2054.5	1482.7
37.5°	17064.7	11479.0	3847.3	1452.4	1063.6
40°	16244.6	10093.2	2861.3	1063.6	809.2
42.5°	15363.9	8734.0	2117.5	818.9	655.4
45°	14371.8	7429.4	1577.2	671.1	558.4
47.5°	13409.9	6213.2	1198.1	571.8	485.8
50°	12322.1	5115.6	937.6	499.1	426.4
52.5°	11167.7	4150.2	760.7	439.7	375.5
55°	9951.5	3321.6	634.8	390.1	331.9
57.5°	8719.5	2631.1	542.7	347.7	295.6
60°	7454.8	2104.2	471.2	311.3	264.1
62.5°	6220.4	1682.6	411.9	279.8	236.2
65°	5068.4	1364.0	363.4	250.8	210.8
67.5°	4003.6	1078.1	339.2	225.3	190.2
70°	3090.2	839.5	315.0	201.1	169.6
72.5°	2341.6	644.5	278.6	179.3	150.2
75°	1720.2	499.1	226.5	157.5	132.0
77.5°	1230.8	384.0	184.1	136.9	113.9
80°	844.3	285.9	151.4	117.5	96.9
82.5°	548.8	202.3	122.3	96.9	80.0
85°	317.4	132.0	92.1	76.3	63.0
87.5°	136.9	72.7	63.0	56.9	48.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)