

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-CL-UNV-L740-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 (P23762)  
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-CL-UNV-L740-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

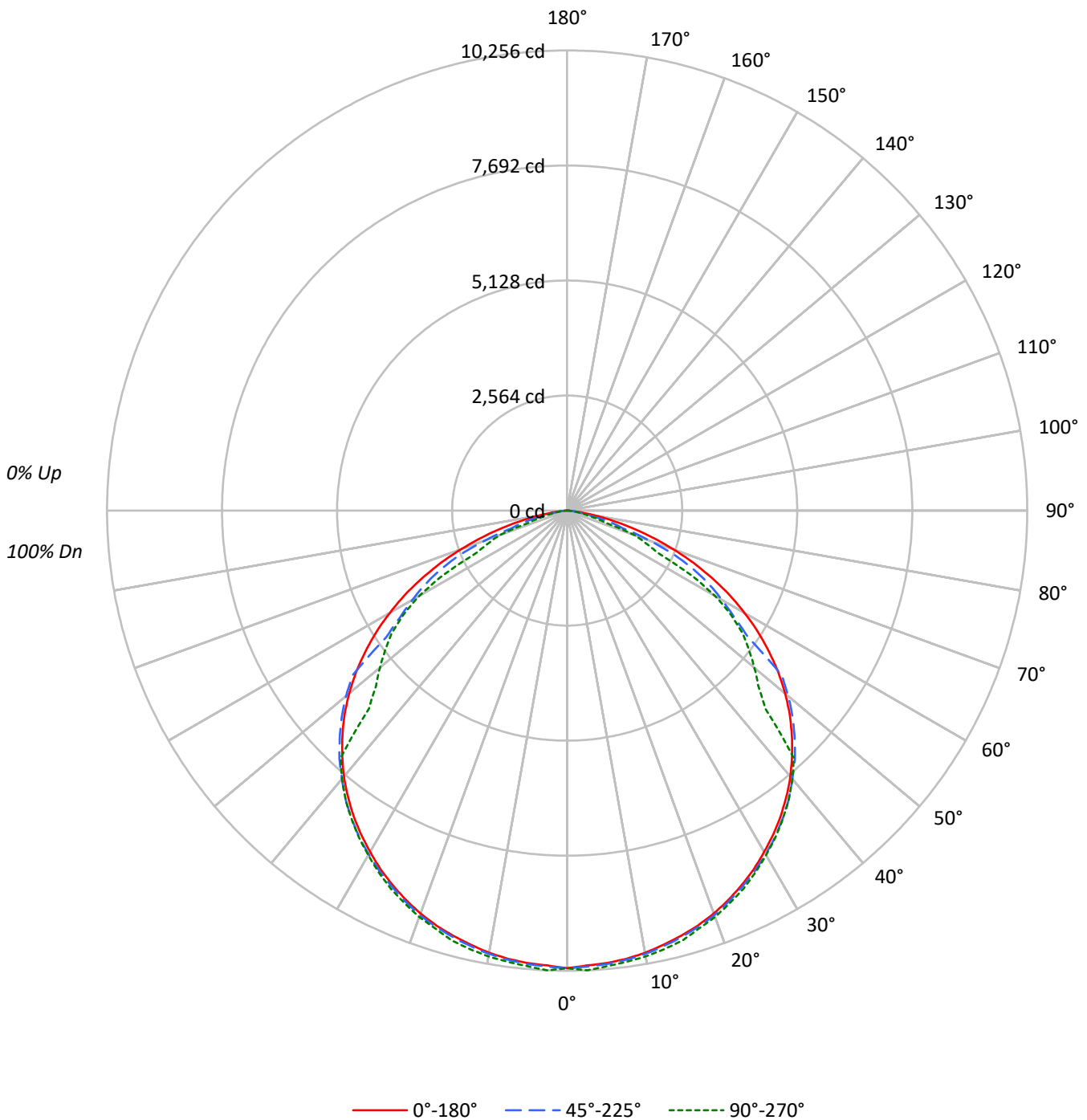
Lumens per Lamp: N/A  
Luminaire Lumens: 27567.0 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86				86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73				73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62				62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36				36
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32				32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29				29
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26				26

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

	0°	45°	90°
0°	13720	13720	13720
5°	13670	13700	13767
10°	13669	13708	13787
15°	13668	13709	13820
20°	13685	13736	13800
25°	13669	13721	13804
30°	13643	13744	13775
35°	13637	13761	13772
40°	13594	13714	13714
45°	13478	13641	11886
50°	13270	13470	11404
55°	12893	11530	11201
60°	12288	10718	10234
65°	11364	9949	7087
70°	9895	7742	6315
75°	7816	5196	3395
80°	5031	2482	2116
85°	2070	1514	1667



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	967.3	3.5
10°-20°	2788.0	10.1
20°-30°	4274.4	15.5
30°-40°	5239.0	19.0
40°-50°	5386.1	19.5
50°-60°	4596.8	16.7
60°-70°	3039.0	11.0
70°-80°	1125.9	4.1
80°-90°	150.6	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°	8029.7	29.1
0°-40°	13268.7	48.1
0°-60°	23251.5	84.3
0°-90°	27567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27567.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10197	10197	10197	10197	10197	
5°	10121	10192	10144	10183	10193	963
15°	9812	9872	9842	9916	9921	2772
25°	9207	9256	9242	9325	9298	4245
35°	8302	8359	8378	8430	8384	5193
45°	7083	7154	7169	7158	6246	5459
55°	5496	5597	4915	4773	4775	4904
65°	3570	3599	3125	2570	2226	3520
75°	1504	1317	1000	672	653	1613
85°	134	96	98	107	108	222
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10196.9	10196.9	10196.9	10196.9	10196.9
2.5°	10147.3	10210.6	10173.3	10220.5	10256.5
5°	10121.2	10192.0	10143.5	10183.3	10193.2
7.5°	10076.5	10142.3	10097.6	10149.8	10142.3
10°	10004.5	10064.1	10033.0	10087.7	10091.4
12.5°	9912.6	9972.2	9943.7	10010.7	10009.5
15°	9812.0	9871.6	9841.8	9916.3	9921.3
17.5°	9694.1	9748.7	9726.4	9794.7	9767.3
20°	9557.5	9604.7	9593.5	9658.1	9638.2
22.5°	9389.9	9438.3	9427.2	9501.7	9471.9
25°	9207.4	9255.8	9242.2	9325.4	9298.0
27.5°	9010.0	9055.9	9054.7	9132.9	9090.7
30°	8781.6	8842.4	8846.1	8915.6	8866.0
32.5°	8555.6	8612.7	8628.8	8679.7	8637.5
35°	8302.3	8359.4	8378.0	8430.2	8384.3
37.5°	8029.2	8077.6	8111.1	8149.6	8113.6
40°	7739.9	7783.3	7808.2	7855.3	7808.2
42.5°	7417.1	7479.2	7513.9	7547.4	7470.5
45°	7083.1	7153.9	7168.8	7157.6	6246.3
47.5°	6729.3	6806.2	6814.9	5943.3	5775.7
50°	6339.4	6436.2	6435.0	5492.7	5448.0
52.5°	5933.4	6026.5	6022.8	5140.1	5110.3
55°	5496.4	5597.0	4915.3	4772.6	4775.0
57.5°	5050.7	5122.7	4410.0	4416.2	4334.3
60°	4566.5	4634.7	3982.9	3944.4	3802.9
62.5°	4081.0	4109.6	3569.5	3382.0	3112.6
65°	3569.5	3599.3	3125.0	2570.0	2226.1
67.5°	3044.3	3074.1	2593.6	1912.0	1885.9
70°	2515.4	2272.1	1967.9	1592.9	1605.3
72.5°	1993.9	1745.6	1286.3	1234.1	891.4
75°	1503.5	1317.3	999.5	671.7	653.1
77.5°	1046.6	907.6	535.1	458.1	428.3
80°	649.3	455.7	320.3	284.3	273.1
82.5°	329.0	262.0	173.8	173.8	173.8
85°	134.1	95.6	98.1	106.8	108.0
87.5°	28.6	38.5	47.2	48.4	47.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)