

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-AWG-UNV-L840-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 (P23764)
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-AWG-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

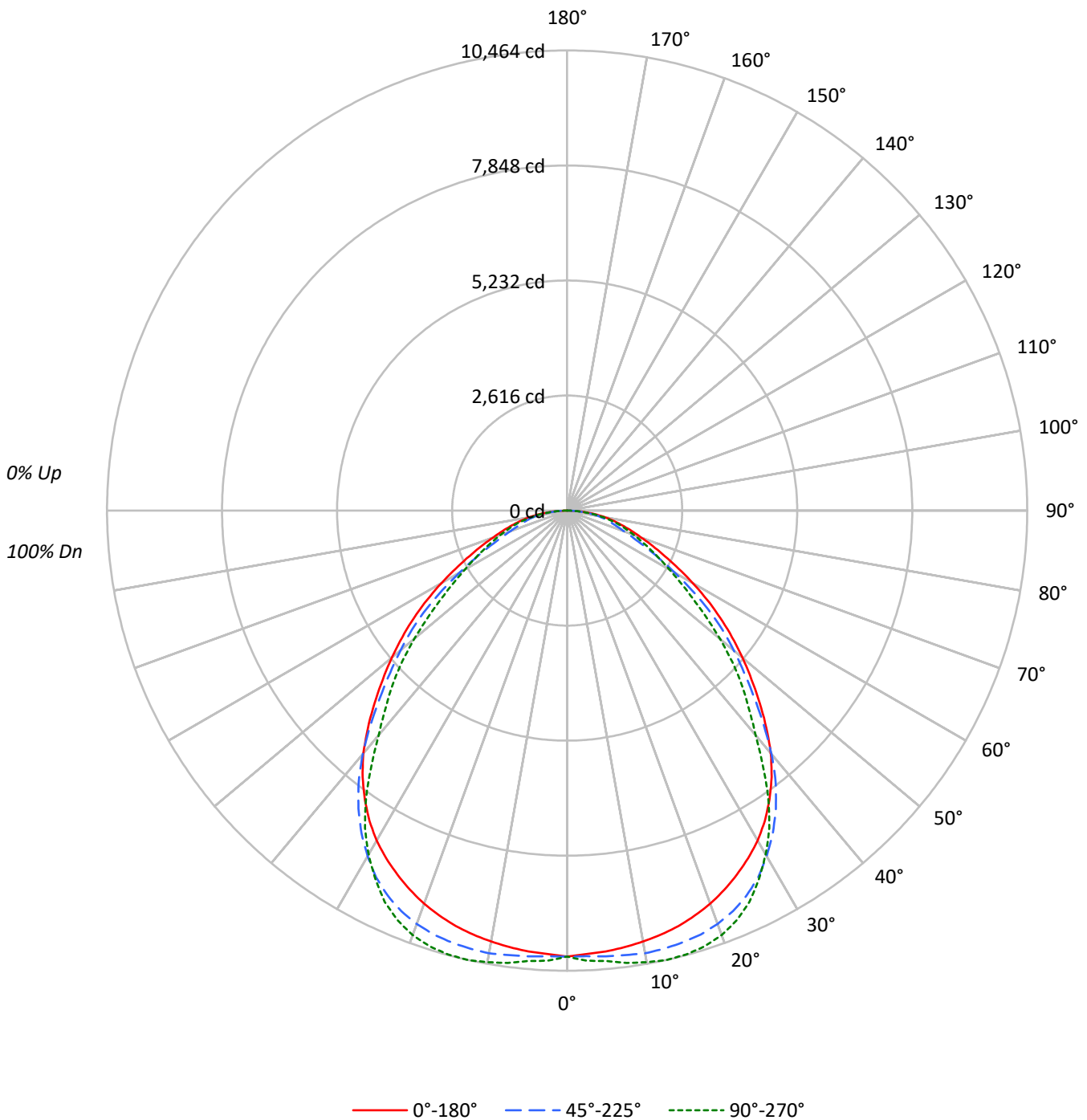
Lumens per Lamp: N/A
Luminaire Lumens: 25140.0 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13645	13645	13645
5°	13592	13744	13884
10°	13596	13965	14246
15°	13622	14159	14557
20°	13619	14321	14706
25°	13560	14340	14572
30°	13460	14101	14026
35°	13174	13591	13096
40°	12659	12696	11708
45°	11783	11446	10703
50°	10891	10350	9484
55°	9970	9172	8184
60°	8890	7613	7227
65°	7797	6266	6640
70°	7040	5397	6323
75°	6729	5290	6305
80°	6783	5601	6151
85°	6008	5130	5369



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.2	3.9
10°-20°	2870.9	11.4
20°-30°	4403.5	17.5
30°-40°	5064.7	20.1
40°-50°	4619.3	18.4
50°-60°	3462.2	13.8
60°-70°	2129.7	8.5
70°-80°	1220.4	4.9
80°-90°	395.1	1.6
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°	8248.5	32.8
0°-40°	13313.2	53.0
0°-60°	21394.7	85.1
0°-90°	25140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10141	10141	10141	10141	10141	
5°	10064	10166	10176	10260	10280	957
15°	9779	9996	10164	10382	10450	2761
25°	9134	9396	9659	9808	9815	4209
35°	8021	8177	8274	8138	7973	5002
45°	6192	6327	6015	5705	5625	4779
55°	4250	4092	3910	3565	3489	3797
65°	2449	2190	1968	2029	2086	2463
75°	1294	1160	1018	1165	1213	1384
85°	389	367	332	350	348	434
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10141.3	10141.3	10141.3	10141.3	10141.3
2.5°	10093.4	10165.8	10142.6	10202.0	10246.0
5°	10063.7	10165.8	10176.2	10260.2	10279.6
7.5°	10013.3	10146.4	10193.0	10341.7	10375.3
10°	9951.2	10111.5	10221.4	10381.8	10427.0
12.5°	9876.2	10062.4	10202.0	10399.9	10464.5
15°	9779.2	9996.4	10164.5	10381.8	10450.3
17.5°	9656.4	9908.5	10105.1	10318.4	10389.5
20°	9511.6	9777.9	10001.6	10220.1	10270.6
22.5°	9337.0	9604.7	9859.4	10055.9	10083.1
25°	9134.0	9396.5	9659.0	9807.7	9815.4
27.5°	8912.9	9157.3	9402.9	9483.1	9448.2
30°	8663.3	8881.9	9075.8	9092.6	9028.0
32.5°	8367.2	8563.8	8702.1	8665.9	8557.3
35°	8020.7	8177.2	8274.1	8138.4	7972.9
37.5°	7640.5	7758.2	7790.5	7495.7	7306.9
40°	7207.4	7308.2	7228.1	6818.2	6665.6
42.5°	6708.3	6824.6	6619.0	6214.3	6121.2
45°	6192.3	6326.8	6015.2	5704.9	5624.7
47.5°	5686.8	5809.6	5456.6	5207.0	5088.1
50°	5203.2	5256.2	4944.6	4662.7	4530.8
52.5°	4727.3	4674.3	4453.2	4102.8	3986.4
55°	4250.2	4092.5	3910.1	3564.9	3488.6
57.5°	3771.8	3552.0	3352.8	3087.8	3058.0
60°	3303.7	3033.5	2829.2	2671.4	2685.6
62.5°	2857.6	2582.2	2363.7	2313.2	2367.5
65°	2449.0	2190.4	1968.0	2028.8	2085.7
67.5°	2108.9	1860.7	1634.4	1789.6	1834.8
70°	1789.6	1589.1	1371.9	1572.3	1607.2
72.5°	1534.8	1364.2	1175.4	1370.6	1400.4
75°	1294.3	1159.9	1017.6	1165.0	1212.9
77.5°	1084.9	973.7	876.7	963.3	1015.0
80°	875.4	781.0	722.8	761.6	793.9
82.5°	641.3	580.6	537.9	554.7	559.9
85°	389.2	367.2	332.3	350.4	347.8
87.5°	128.0	146.1	153.9	138.4	130.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)