

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-AWG-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 (P23764)
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-AWG-UNV-L735-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: 26312.0 lumens
Efficiency: N/A
Efficacy: 146.2 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

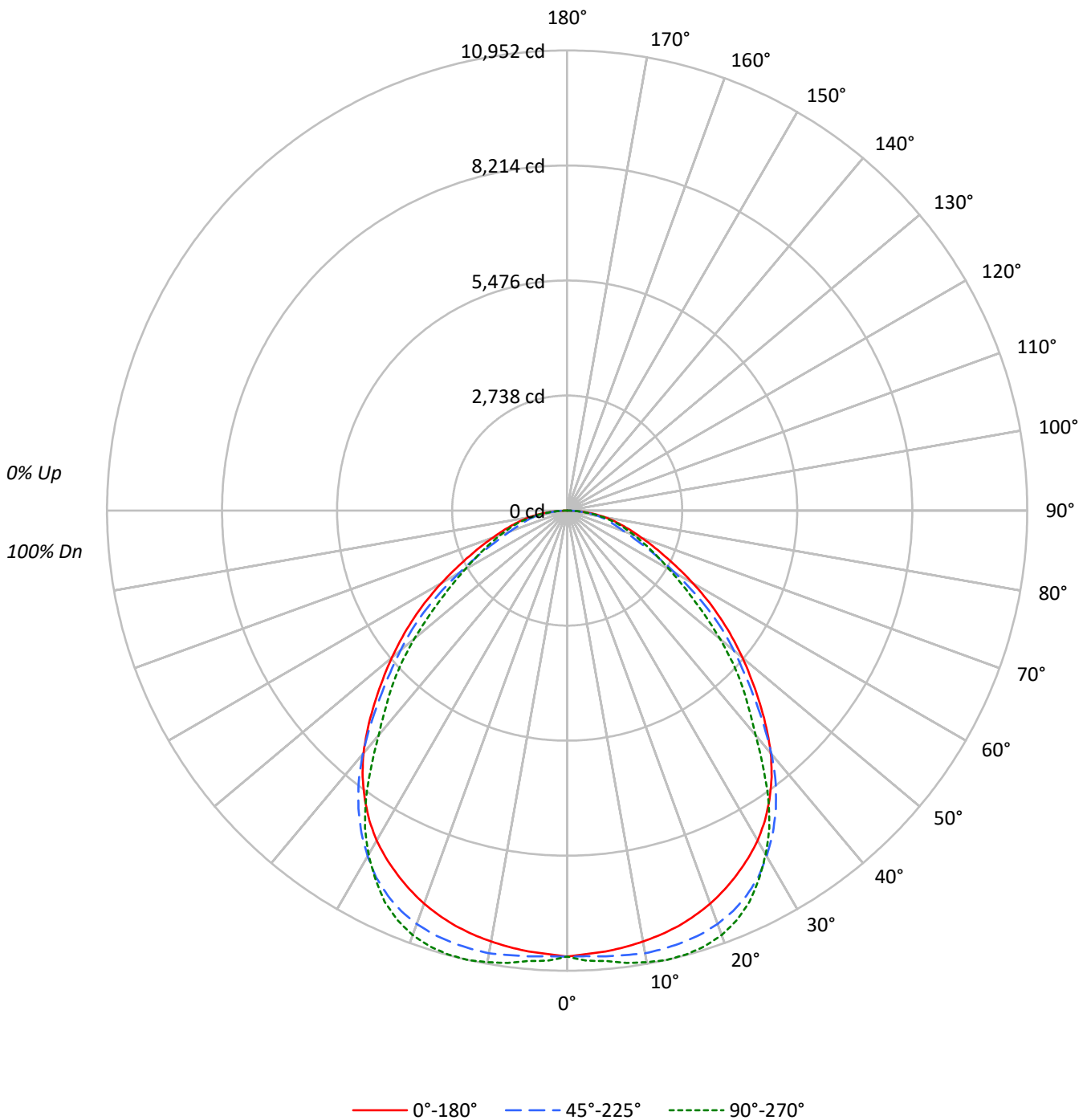
Input Watts (W): 180
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14281	14281	14281
5°	14226	14385	14531
10°	14230	14616	14910
15°	14257	14819	15235
20°	14254	14988	15391
25°	14192	15008	15251
30°	14087	14758	14680
35°	13788	14224	13706
40°	13249	13287	12253
45°	12332	11979	11202
50°	11399	10833	9926
55°	10435	9600	8565
60°	9305	7968	7564
65°	8160	6557	6950
70°	7368	5649	6618
75°	7043	5537	6599
80°	7099	5862	6438
85°	6288	5369	5619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1019.6	3.9
10°-20°	3004.7	11.4
20°-30°	4608.8	17.5
30°-40°	5300.8	20.1
40°-50°	4834.7	18.4
50°-60°	3623.6	13.8
60°-70°	2229.0	8.5
70°-80°	1277.3	4.9
80°-90°	413.5	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°	8633.1	32.8
0°-40°	13933.9	53.0
0°-60°	22392.1	85.1
0°-90°	26312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10614	10614	10614	10614	10614	
5°	10533	10640	10651	10738	10759	###
15°	10235	10462	10638	10866	10938	2889
25°	9560	9834	10109	10265	10273	4405
35°	8395	8558	8660	8518	8344	5235
45°	6481	6622	6296	5971	5887	5002
55°	4448	4283	4092	3731	3651	3974
65°	2563	2292	2060	2123	2183	2577
75°	1355	1214	1065	1219	1269	1449
85°	407	384	348	367	364	454
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10614.0	10614.0	10614.0	10614.0	10614.0
2.5°	10564.0	10639.8	10615.4	10677.7	10723.7
5°	10532.8	10639.8	10650.6	10738.5	10758.8
7.5°	10480.1	10619.5	10668.2	10823.8	10859.0
10°	10415.1	10582.9	10698.0	10865.8	10913.1
12.5°	10336.6	10531.5	10677.7	10884.7	10952.4
15°	10235.1	10462.5	10638.4	10865.8	10937.5
17.5°	10106.6	10370.4	10576.2	10799.4	10873.9
20°	9955.0	10233.8	10467.9	10696.6	10749.4
22.5°	9772.3	10052.4	10319.0	10524.7	10553.1
25°	9559.8	9834.5	10109.3	10264.9	10273.0
27.5°	9328.4	9584.2	9841.3	9925.2	9888.7
30°	9067.2	9295.9	9498.9	9516.5	9448.8
32.5°	8757.3	8963.0	9107.8	9069.9	8956.2
35°	8394.6	8558.4	8659.9	8517.8	8344.5
37.5°	7996.7	8119.9	8153.7	7845.2	7647.6
40°	7543.4	7648.9	7565.0	7136.0	6976.3
42.5°	7021.0	7142.8	6927.6	6504.0	6406.6
45°	6481.0	6621.8	6295.6	5970.8	5886.9
47.5°	5951.9	6080.4	5711.0	5449.8	5325.3
50°	5445.7	5501.2	5175.1	4880.1	4742.0
52.5°	4947.7	4892.2	4660.8	4294.1	4172.3
55°	4448.3	4283.2	4092.4	3731.1	3651.2
57.5°	3947.6	3717.6	3509.1	3231.7	3200.6
60°	3457.7	3174.9	2961.1	2795.9	2810.8
62.5°	2990.8	2702.6	2473.9	2421.1	2477.9
65°	2563.2	2292.5	2059.7	2123.4	2182.9
67.5°	2207.3	1947.4	1710.6	1873.0	1920.4
70°	1873.0	1663.2	1435.9	1645.6	1682.2
72.5°	1606.4	1427.7	1230.2	1434.5	1465.6
75°	1354.7	1213.9	1065.1	1219.3	1269.4
77.5°	1135.4	1019.0	917.5	1008.2	1062.4
80°	916.2	817.4	756.5	797.1	830.9
82.5°	671.2	607.6	563.0	580.6	586.0
85°	407.3	384.3	347.8	366.7	364.0
87.5°	134.0	152.9	161.0	144.8	136.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)