

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-LD5-18SE-N-CLWG-UNV-L835-ED1-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 (P33344)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-18SE-N-CLWG-UNV-L835-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

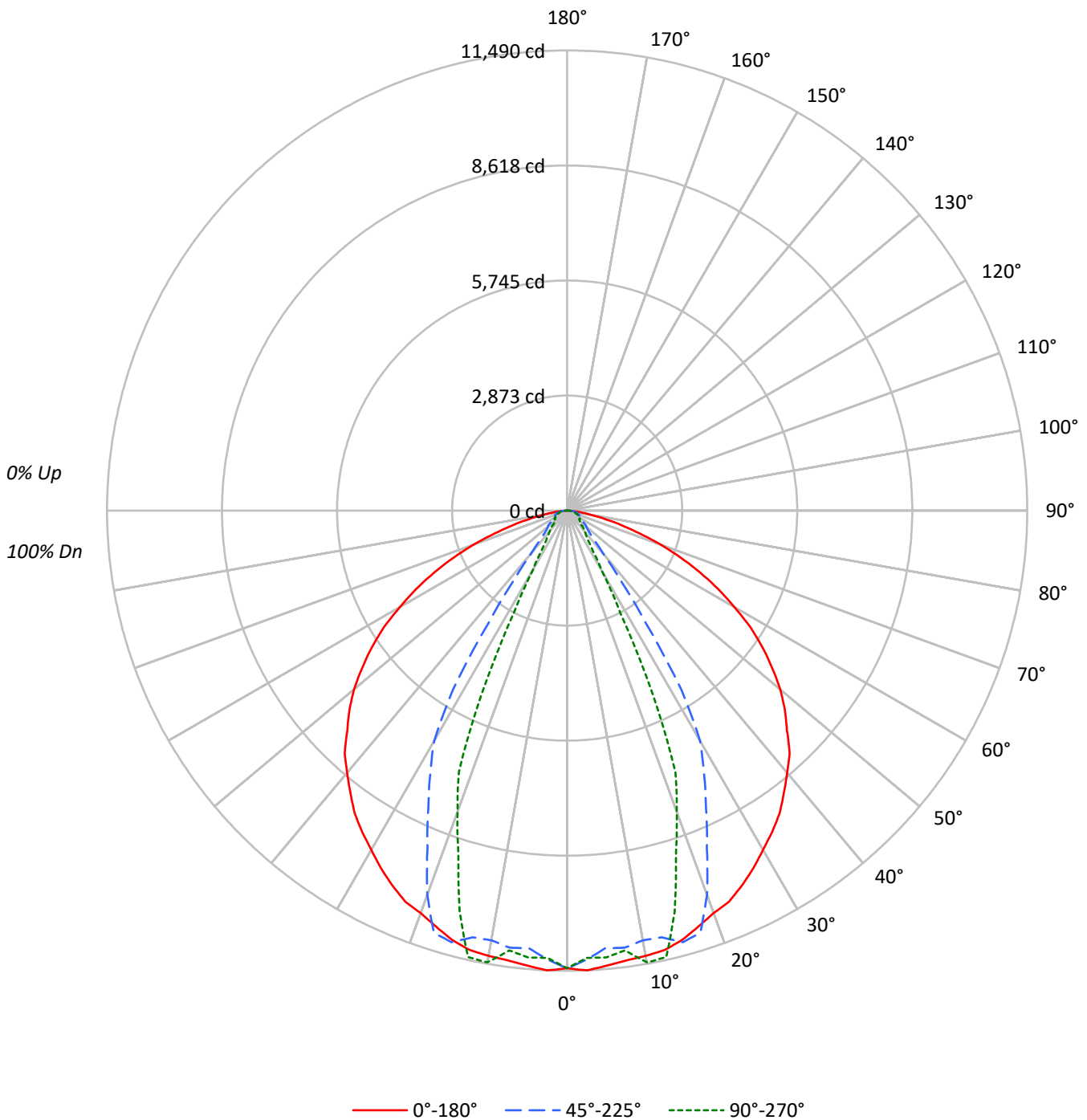
Lumens per Lamp: N/A  
Luminaire Lumens: 15363.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 121.76  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38

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

	0°	45°	90°
0°	15376	15376	15376
5°	15401	14815	15127
10°	15424	14886	15650
15°	15458	15539	14442
20°	15312	14615	11463
25°	15334	12184	7488
30°	15196	10322	2690
35°	15180	5591	1513
40°	15009	2438	1185
45°	14776	1506	929
50°	14546	1312	877
55°	13975	1138	858
60°	12966	1020	922
65°	11654	1152	1008
70°	9774	1239	1039
75°	7307	1413	1125
80°	4589	1641	1283
85°	3055	2056	1879



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1059.2	6.9
10°-20°	2990.9	19.5
20°-30°	3662.5	23.8
30°-40°	2876.2	18.7
40°-50°	2132.8	13.9
50°-60°	1298.4	8.5
60°-70°	777.8	5.1
70°-80°	426.7	2.8
80°-90°	138.4	0.9
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°	7712.6	50.2
0°-40°	10588.8	68.9
0°-60°	14020.1	91.3
0°-90°	15363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11428	11428	11428	11428	11428	
5°	11403	11093	10969	11090	11200	###
15°	11097	10793	11155	10705	10368	3124
25°	10329	10361	8207	6437	5044	4755
35°	9242	8407	3404	1139	921	5767
45°	7766	5576	792	600	488	6005
55°	5957	1536	485	410	366	5301
65°	3661	453	362	340	316	3617
75°	1406	286	272	236	216	1522
85°	198	156	133	122	122	242
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11427.8	11427.8	11427.8	11427.8	11427.8
2.5°	11490.2	11335.3	11216.7	11150.5	11177.5
5°	11403.1	11092.7	10968.7	11089.7	11199.8
7.5°	11327.6	10866.3	11006.5	11017.3	11075.0
10°	11289.1	10844.8	10895.6	11135.1	11454.7
12.5°	11238.3	10894.8	10912.5	11239.1	11419.3
15°	11097.4	10793.1	11155.1	10704.6	10368.0
17.5°	10891.7	10555.9	11053.5	9483.1	9025.6
20°	10693.8	10297.9	10207.1	8447.2	8005.9
22.5°	10565.9	10258.7	9118.0	7526.9	7070.9
25°	10328.7	10361.1	8206.9	6437.1	5043.8
27.5°	10067.7	10120.0	7401.3	4292.9	2889.7
30°	9781.1	9841.2	6643.5	2536.9	1731.3
32.5°	9521.6	9182.7	5305.7	1582.7	1203.8
35°	9242.0	8407.2	3404.1	1139.1	921.1
37.5°	8890.1	7592.3	2154.9	901.1	773.2
40°	8545.0	6860.7	1387.8	769.4	674.7
42.5°	8222.3	6257.6	1009.7	672.4	609.2
45°	7765.6	5576.0	791.7	600.0	488.3
47.5°	7370.5	4776.6	692.4	507.5	421.3
50°	6949.2	3652.1	626.9	451.3	419.0
52.5°	6449.4	2389.1	579.2	432.1	391.2
55°	5957.3	1536.5	485.2	410.5	365.8
57.5°	5425.8	974.3	428.2	398.2	382.0
60°	4818.2	657.0	378.9	377.4	342.7
62.5°	4256.0	539.9	365.8	362.0	324.2
65°	3660.6	452.9	362.0	340.4	316.5
67.5°	3066.0	388.2	327.3	311.1	290.4
70°	2484.6	355.0	315.0	308.1	264.2
72.5°	1886.9	292.7	279.6	261.1	219.5
75°	1405.6	285.7	271.9	236.4	216.4
77.5°	951.2	263.4	247.2	211.8	195.6
80°	592.3	241.8	211.8	185.6	165.6
82.5°	352.0	201.8	174.1	153.3	140.2
85°	197.9	155.6	133.2	122.5	121.7
87.5°	42.4	56.2	44.7	42.4	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)