

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-LD5-18HE-W-CLWG-UNV-L750-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-CLWG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18193.0 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

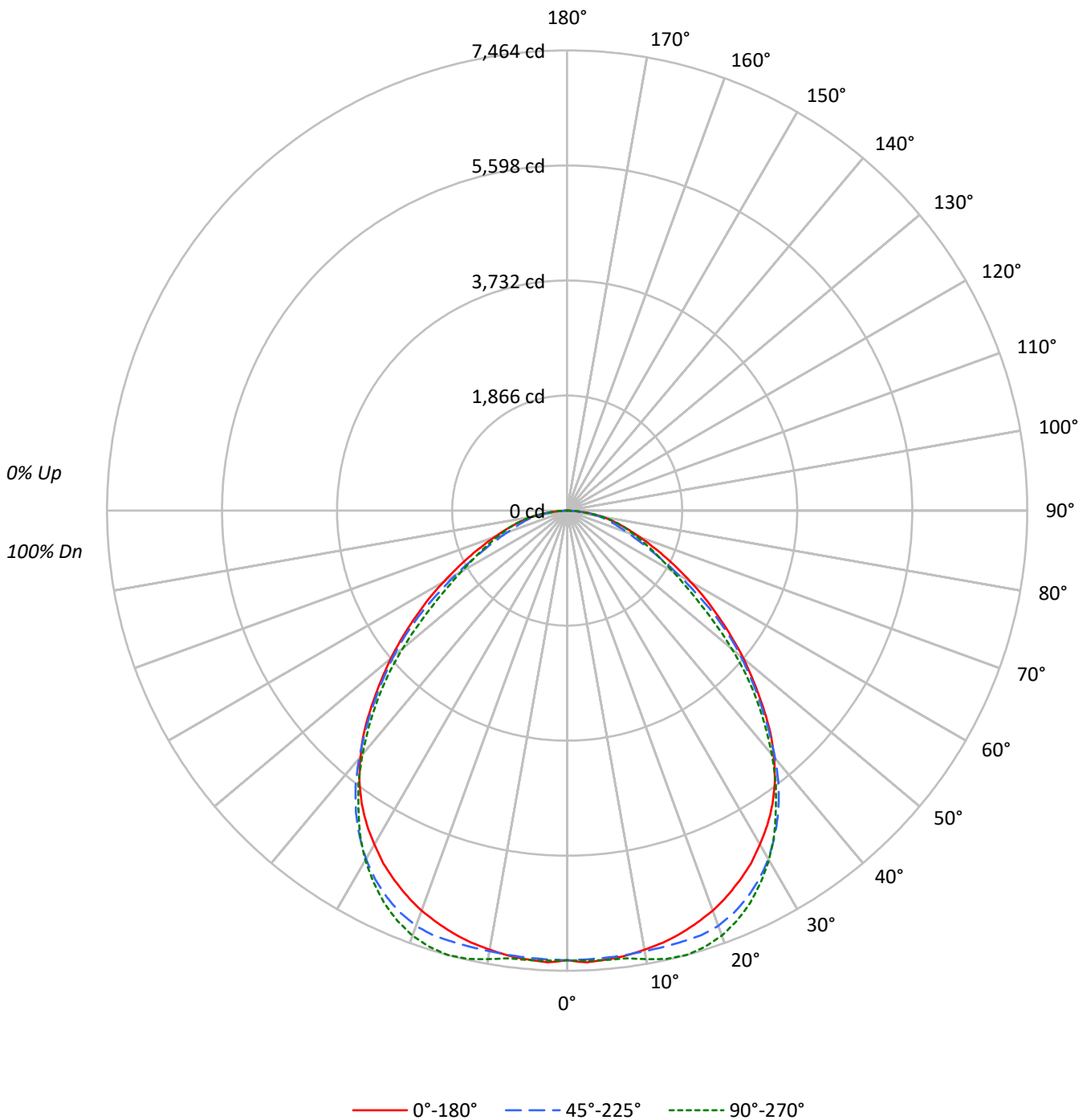
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9815	9815	9815
5°	9873	9832	9881
10°	9882	9915	10093
15°	9894	10080	10397
20°	9887	10265	10504
25°	9827	10274	10425
30°	9714	10138	10170
35°	9541	9809	9692
40°	9164	9220	9075
45°	8539	8449	8278
50°	7818	7692	7298
55°	7022	6762	6170
60°	6228	5595	5327
65°	5487	4649	4834
70°	4908	4034	4604
75°	4597	3922	4656
80°	4475	3966	4432
85°	3572	3137	3253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.9	3.8
10°-20°	2046.9	11.3
20°-30°	3148.9	17.3
30°-40°	3675.0	20.2
40°-50°	3415.0	18.8
50°-60°	2531.3	13.9
60°-70°	1547.4	8.5
70°-80°	881.4	4.8
80°-90°	252.1	1.4
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°	5890.7	32.4
0°-40°	9565.7	52.6
0°-60°	15512.1	85.3
0°-90°	18193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7295	7295	7295	7295	7295	
5°	7310	7276	7280	7274	7316	695
15°	7103	7099	7236	7380	7464	2005
25°	6619	6670	6920	6979	7022	3049
35°	5808	5854	5972	5923	5901	3619
45°	4488	4514	4440	4371	4350	3458
55°	2994	2918	2883	2678	2630	2686
65°	1724	1566	1460	1500	1518	1725
75°	884	830	754	860	896	946
85°	231	226	203	211	211	267
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7294.9	7294.9	7294.9	7294.9	7294.9
2.5°	7334.4	7293.0	7285.5	7268.5	7306.2
5°	7309.9	7276.1	7279.8	7274.2	7315.6
7.5°	7281.7	7257.2	7272.3	7270.4	7325.0
10°	7232.8	7219.6	7257.2	7298.6	7387.1
12.5°	7178.2	7165.0	7247.8	7353.2	7449.2
15°	7102.9	7099.2	7236.5	7379.5	7464.2
17.5°	7008.9	7014.5	7223.4	7345.7	7420.9
20°	6905.4	6914.8	7168.8	7268.5	7336.3
22.5°	6771.8	6803.8	7063.4	7146.2	7198.9
25°	6619.4	6670.2	6920.4	6978.8	7022.0
27.5°	6455.7	6506.5	6743.6	6773.7	6798.1
30°	6252.5	6324.0	6525.3	6529.1	6546.0
32.5°	6045.5	6109.5	6263.8	6246.8	6250.6
35°	5808.4	5853.6	5972.1	5923.2	5900.6
37.5°	5535.6	5560.1	5635.3	5561.9	5558.2
40°	5217.6	5249.6	5249.6	5148.0	5166.8
42.5°	4878.9	4890.2	4843.2	4747.2	4762.3
45°	4487.6	4513.9	4440.5	4370.9	4350.2
47.5°	4100.0	4126.3	4049.2	3968.2	3932.5
50°	3734.9	3721.8	3674.7	3537.4	3486.6
52.5°	3356.7	3315.3	3296.5	3095.2	3036.9
55°	2993.6	2918.3	2882.6	2677.5	2630.4
57.5°	2656.8	2521.3	2453.6	2293.6	2274.8
60°	2314.3	2161.9	2079.1	1975.7	1979.4
62.5°	2003.9	1843.9	1744.2	1714.1	1727.3
65°	1723.5	1565.5	1460.1	1499.6	1518.4
67.5°	1469.5	1339.7	1221.1	1313.3	1332.2
70°	1247.5	1144.0	1025.5	1160.9	1170.3
72.5°	1063.1	978.4	878.7	1006.6	1027.3
75°	884.3	829.8	754.5	859.9	895.6
77.5°	728.2	684.9	641.6	705.6	745.1
80°	577.6	534.4	511.8	545.7	572.0
82.5°	408.3	380.1	357.5	382.0	395.1
85°	231.4	225.8	203.2	210.7	210.7
87.5°	52.7	60.2	67.7	62.1	52.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)