

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-A-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-W-A-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

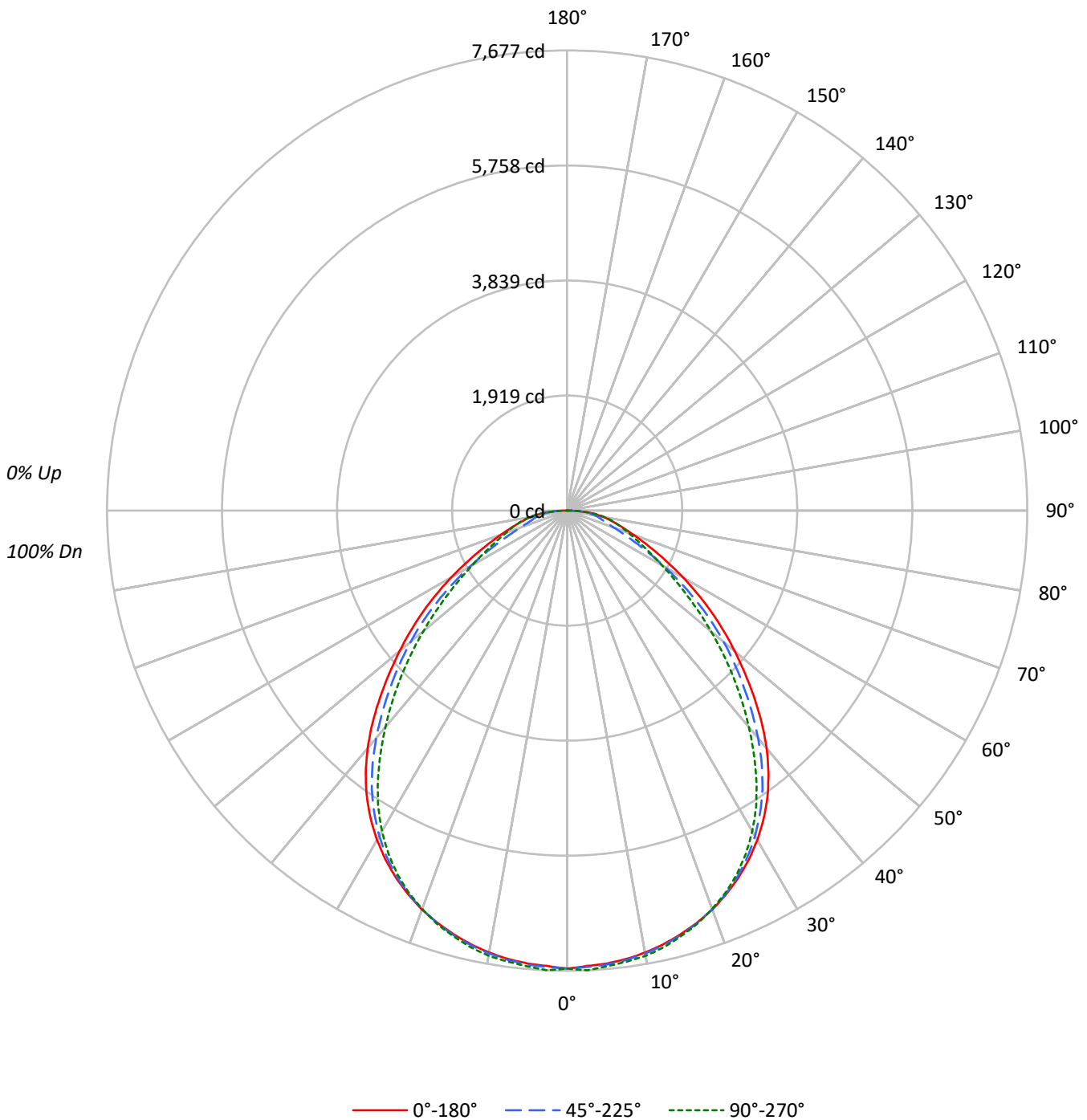
Lumens per Lamp: N/A
Luminaire Lumens: 17550.0 lumens
Efficiency: N/A
Efficacy: 156.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (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	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10279	10279	10279
5°	10243	10266	10308
10°	10228	10252	10304
15°	10194	10215	10239
20°	10141	10133	10126
25°	10031	9996	9940
30°	9858	9738	9597
35°	9571	9330	9043
40°	9095	8705	8287
45°	8402	7933	7453
50°	7638	7144	6556
55°	6868	6185	5667
60°	6010	5054	4918
65°	5182	3975	4438
70°	4620	3244	4277
75°	4426	3167	4470
80°	4787	3746	4981
85°	5374	4509	5426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.1	4.1
10°-20°	2072.2	11.8
20°-30°	3099.8	17.7
30°-40°	3536.7	20.2
40°-50°	3219.4	18.3
50°-60°	2363.9	13.5
60°-70°	1395.8	8.0
70°-80°	799.9	4.6
80°-90°	338.2	1.9
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°	5896.1	33.6
0°-40°	9432.8	53.7
0°-60°	15016.1	85.6
0°-90°	17550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7640	7640	7640	7640	7640	
5°	7584	7631	7601	7631	7632	721
15°	7318	7359	7333	7359	7350	2065
25°	6757	6781	6733	6731	6696	3110
35°	5827	5799	5680	5583	5506	3630
45°	4416	4390	4169	3982	3917	3403
55°	2928	2792	2636	2445	2416	2618
65°	1628	1421	1248	1336	1394	1638
75°	851	730	609	794	860	918
85°	348	321	292	345	352	364
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7639.8	7639.8	7639.8	7639.8	7639.8
2.5°	7604.5	7648.4	7620.9	7651.0	7676.9
5°	7583.8	7631.2	7601.0	7631.2	7632.1
7.5°	7545.9	7589.8	7560.5	7593.3	7589.8
10°	7486.4	7530.4	7503.7	7539.0	7541.6
12.5°	7410.6	7452.8	7425.3	7465.8	7458.9
15°	7318.4	7358.9	7333.1	7358.9	7350.3
17.5°	7209.9	7246.9	7213.3	7241.8	7227.1
20°	7082.4	7113.4	7077.2	7103.9	7072.0
22.5°	6929.9	6957.4	6919.5	6934.2	6901.4
25°	6756.7	6780.8	6733.4	6730.8	6695.5
27.5°	6563.7	6576.6	6516.3	6495.6	6455.1
30°	6344.8	6348.3	6268.1	6229.4	6176.8
32.5°	6099.3	6090.7	5988.1	5930.4	5865.8
35°	5827.0	5798.6	5680.5	5583.2	5505.6
37.5°	5519.4	5474.6	5333.3	5189.4	5115.3
40°	5178.2	5125.7	4955.9	4777.6	4718.1
42.5°	4806.9	4762.1	4562.2	4376.1	4317.5
45°	4415.7	4389.9	4169.3	3982.3	3916.8
47.5°	4024.5	4005.6	3790.2	3599.8	3520.5
50°	3648.9	3607.5	3412.8	3204.3	3131.9
52.5°	3284.4	3200.0	3028.5	2814.8	2761.4
55°	2927.7	2792.4	2636.5	2445.2	2415.9
57.5°	2574.5	2399.6	2247.9	2104.9	2104.0
60°	2233.3	2033.4	1878.3	1803.3	1827.5
62.5°	1913.6	1708.6	1540.5	1545.7	1589.7
65°	1627.6	1420.8	1248.5	1335.5	1394.1
67.5°	1382.0	1184.7	1009.8	1171.8	1227.8
70°	1174.4	996.0	824.6	1027.0	1087.3
72.5°	999.5	849.5	695.3	906.4	967.6
75°	851.3	729.8	609.2	794.4	859.9
77.5°	730.6	622.9	546.3	687.6	755.6
80°	617.8	523.0	483.4	584.2	642.8
82.5°	489.4	423.9	400.6	474.7	504.9
85°	348.1	321.4	292.1	344.6	351.5
87.5°	191.3	198.2	163.7	198.2	199.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)