

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-W-A-UNV-L750-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-W-A-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

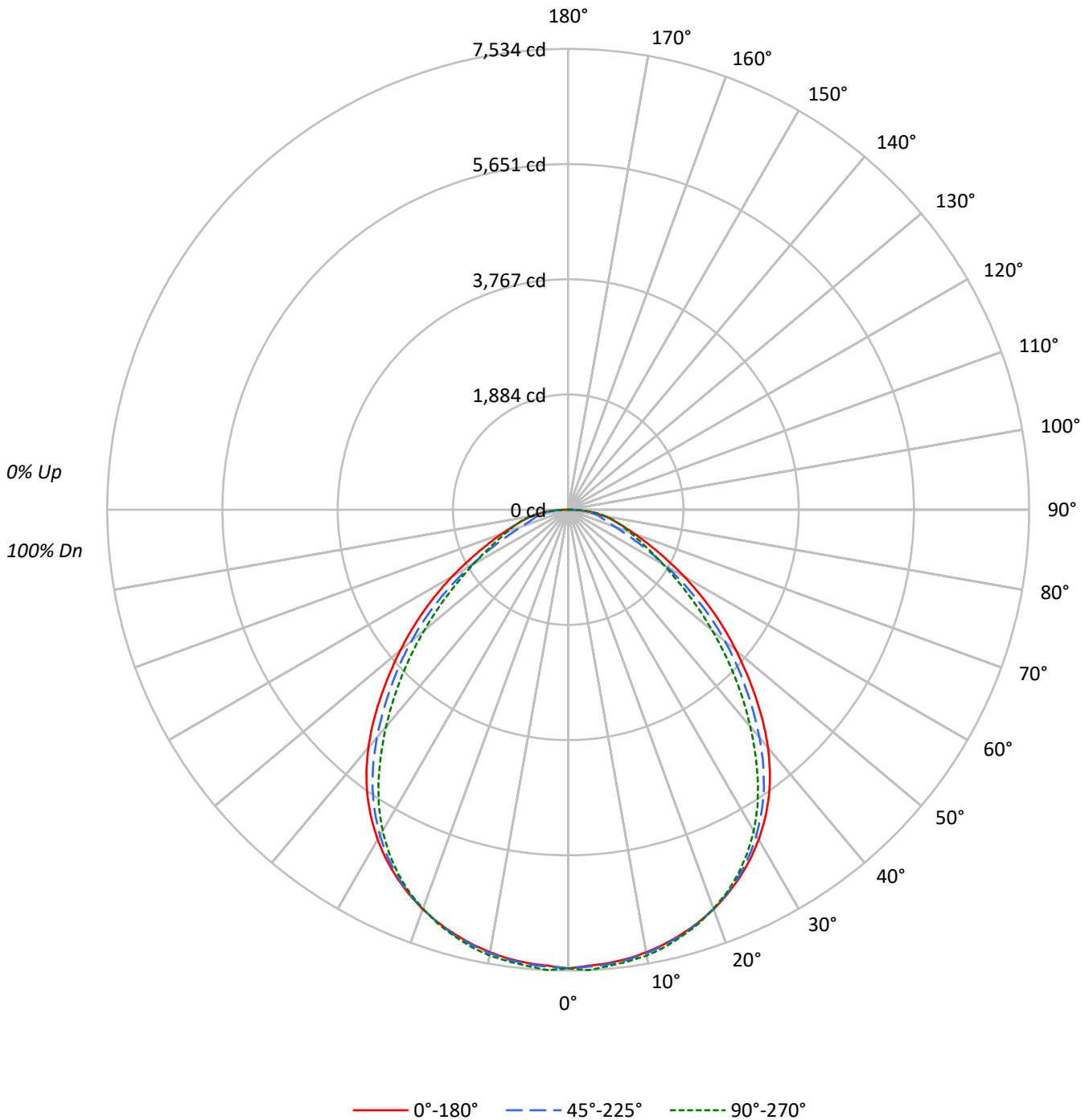
Lumens per Lamp: N/A
Luminaire Lumens: 17224.0 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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°	10088	10088	10088
5°	10053	10075	10117
10°	10038	10061	10112
15°	10005	10025	10048
20°	9952	9945	9938
25°	9845	9811	9755
30°	9674	9558	9418
35°	9393	9157	8875
40°	8926	8543	8133
45°	8246	7786	7315
50°	7496	7011	6434
55°	6740	6070	5562
60°	5898	4961	4826
65°	5085	3901	4356
70°	4534	3183	4198
75°	4343	3108	4387
80°	4698	3676	4888
85°	5274	4426	5326



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.6	4.1
10°-20°	2033.7	11.8
20°-30°	3042.3	17.7
30°-40°	3471.0	20.2
40°-50°	3159.5	18.3
50°-60°	2320.0	13.5
60°-70°	1369.9	8.0
70°-80°	785.0	4.6
80°-90°	331.9	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°	5786.6	33.6
0°-40°	9257.6	53.7
0°-60°	14737.1	85.6
0°-90°	17224.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7498	7498	7498	7498	7498	
5°	7443	7489	7460	7489	7490	708
15°	7182	7222	7197	7222	7214	2027
25°	6631	6655	6608	6606	6571	3052
35°	5719	5691	5575	5480	5403	3563
45°	4334	4308	4092	3908	3844	3340
55°	2873	2741	2588	2400	2371	2570
65°	1597	1394	1225	1311	1368	1607
75°	835	716	598	780	844	901
85°	342	315	287	338	345	357
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7497.9	7497.9	7497.9	7497.9	7497.9
2.5°	7463.2	7506.4	7479.3	7508.9	7534.3
5°	7442.9	7489.4	7459.8	7489.4	7490.3
7.5°	7405.7	7448.9	7420.1	7452.2	7448.9
10°	7347.4	7390.5	7364.3	7399.0	7401.5
12.5°	7273.0	7314.4	7287.3	7327.1	7320.3
15°	7182.5	7222.2	7196.9	7222.2	7213.8
17.5°	7075.9	7112.3	7079.3	7107.2	7092.9
20°	6950.8	6981.2	6945.7	6971.9	6940.7
22.5°	6801.1	6828.2	6791.0	6805.4	6773.2
25°	6631.2	6654.8	6608.3	6605.8	6571.1
27.5°	6441.7	6454.4	6395.2	6374.9	6335.2
30°	6227.0	6230.3	6151.7	6113.7	6062.1
32.5°	5986.0	5977.5	5876.9	5820.2	5756.8
35°	5718.8	5690.9	5575.0	5479.5	5403.4
37.5°	5416.9	5372.9	5234.2	5093.0	5020.3
40°	5082.0	5030.4	4863.9	4688.8	4630.5
42.5°	4717.6	4673.6	4477.4	4294.8	4237.3
45°	4333.7	4308.3	4091.8	3908.3	3844.1
47.5°	3949.8	3931.2	3719.8	3532.9	3455.1
50°	3581.1	3540.5	3349.4	3144.8	3073.7
52.5°	3223.4	3140.5	2972.3	2762.6	2710.1
55°	2873.3	2740.6	2587.5	2399.8	2371.1
57.5°	2526.6	2355.0	2206.2	2065.8	2064.9
60°	2191.8	1995.6	1843.4	1769.8	1793.5
62.5°	1878.1	1676.8	1511.9	1517.0	1560.1
65°	1597.3	1394.4	1225.3	1310.7	1368.2
67.5°	1356.3	1162.7	991.0	1150.0	1205.0
70°	1152.5	977.5	809.2	1008.0	1067.1
72.5°	980.9	833.8	682.4	889.6	949.6
75°	835.4	716.2	597.8	779.6	843.9
77.5°	717.1	611.4	536.1	674.8	741.6
80°	606.3	513.3	474.4	573.3	630.8
82.5°	480.3	416.0	393.2	465.9	495.5
85°	341.6	315.4	286.7	338.2	345.0
87.5°	187.7	194.5	160.7	194.5	195.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)