

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-WG-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 (P33336)
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-WG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

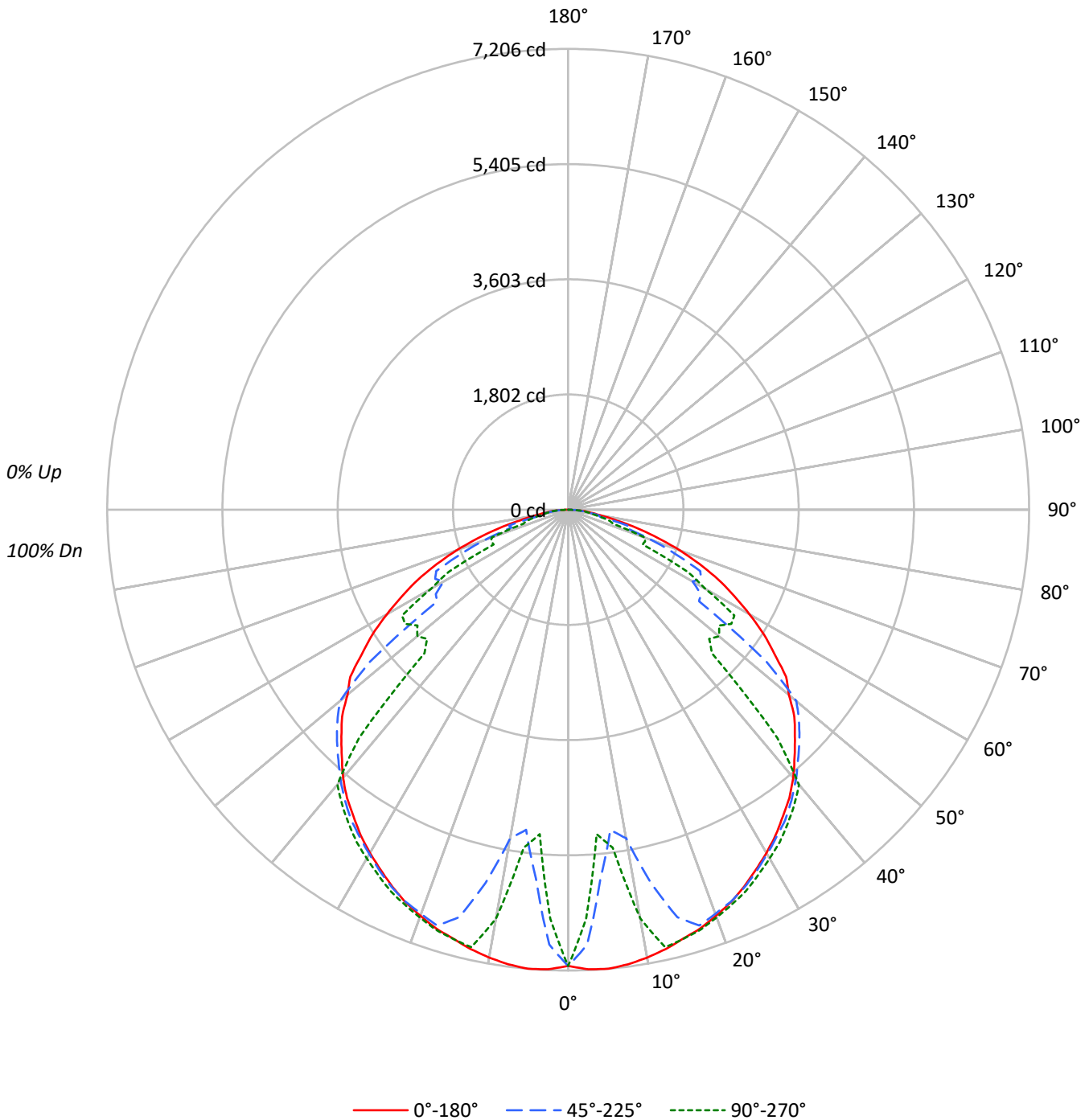
Lumens per Lamp: N/A
Luminaire Lumens: 18900.0 lumens
Efficiency: N/A
Efficacy: 168.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9599	9599	9599
5°	9732	7819	6876
10°	9716	7130	8868
15°	9673	9190	9681
20°	9673	9629	9714
25°	9655	9677	9765
30°	9627	9659	9784
35°	9612	9719	9832
40°	9613	9718	9858
45°	9538	9725	6043
50°	9430	9744	6441
55°	9231	5859	7300
60°	8806	6040	6685
65°	8251	7252	4090
70°	7286	5494	5014
75°	5805	4993	3477
80°	3999	3609	2988
85°	3832	3331	3160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.5	3.0
10°-20°	1787.2	9.5
20°-30°	2940.4	15.6
30°-40°	3697.1	19.6
40°-50°	3626.0	19.2
50°-60°	3004.3	15.9
60°-70°	2119.0	11.2
70°-80°	924.5	4.9
80°-90°	231.0	1.2
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°	5298.1	28.0
0°-40°	8995.3	47.6
0°-60°	15625.5	82.7
0°-90°	18900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7134	7134	7134	7134	7134	
5°	7206	6707	5789	5249	5091	684
15°	6944	4822	6598	6971	6950	1964
25°	6504	5951	6518	6562	6578	2998
35°	5852	5849	5917	5956	5986	3666
45°	5013	5028	5111	4526	3176	3869
55°	3935	4064	2498	2840	3112	3521
65°	2592	2744	2278	1752	1285	2548
75°	1117	1094	960	628	669	1198
85°	248	221	216	206	205	257
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7134.1	7134.1	7134.1	7134.1	7134.1
2.5°	7193.0	7043.7	6806.6	6508.0	6402.2
5°	7205.8	6706.8	5788.9	5248.9	5091.1
7.5°	7169.1	6095.1	5046.7	5160.2	5327.4
10°	7111.1	5557.7	5219.0	6140.3	6490.9
12.5°	7036.9	5080.0	5979.1	6936.2	7006.2
15°	6943.9	4822.3	6597.6	6971.2	6949.9
17.5°	6865.4	4973.3	6819.4	6901.3	6885.9
20°	6755.4	5274.5	6724.7	6790.4	6784.4
22.5°	6644.5	5631.0	6635.1	6682.0	6682.0
25°	6503.7	5950.9	6518.2	6561.7	6577.9
27.5°	6349.3	6135.2	6372.4	6408.2	6437.2
30°	6196.6	6161.6	6217.1	6263.2	6297.3
32.5°	6035.4	6021.7	6065.3	6113.9	6157.4
35°	5852.0	5848.6	5916.8	5956.1	5985.9
37.5°	5679.7	5667.7	5730.9	5785.4	5808.5
40°	5473.2	5473.2	5532.9	5588.4	5612.3
42.5°	5237.8	5271.1	5317.1	5374.3	4840.3
45°	5012.6	5027.9	5110.7	4526.3	3175.9
47.5°	4795.9	4815.5	4894.0	2909.8	2989.1
50°	4505.0	4593.7	4655.1	2901.3	3077.0
52.5°	4292.6	4331.0	3907.9	2872.3	2971.2
55°	3935.2	4064.0	2497.8	2839.8	3112.0
57.5°	3629.8	3723.6	2456.0	2909.8	3078.7
60°	3272.3	3415.6	2244.4	2807.4	2484.1
62.5°	2929.4	3065.9	2343.4	2209.4	2103.6
65°	2591.6	2744.3	2277.7	1752.2	1284.7
67.5°	2221.4	2078.9	1817.0	1234.4	1299.2
70°	1852.0	1451.9	1396.5	1380.3	1274.5
72.5°	1472.4	1059.5	927.3	1035.6	741.3
75°	1116.7	1094.5	960.5	627.9	668.8
77.5°	774.6	789.9	514.4	612.5	508.4
80°	516.1	447.0	465.8	390.7	385.6
82.5°	357.4	365.1	306.2	296.9	301.1
85°	248.2	220.9	215.8	206.4	204.7
87.5°	82.7	96.4	89.6	81.0	86.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)