

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-N-CLI-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CLI-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

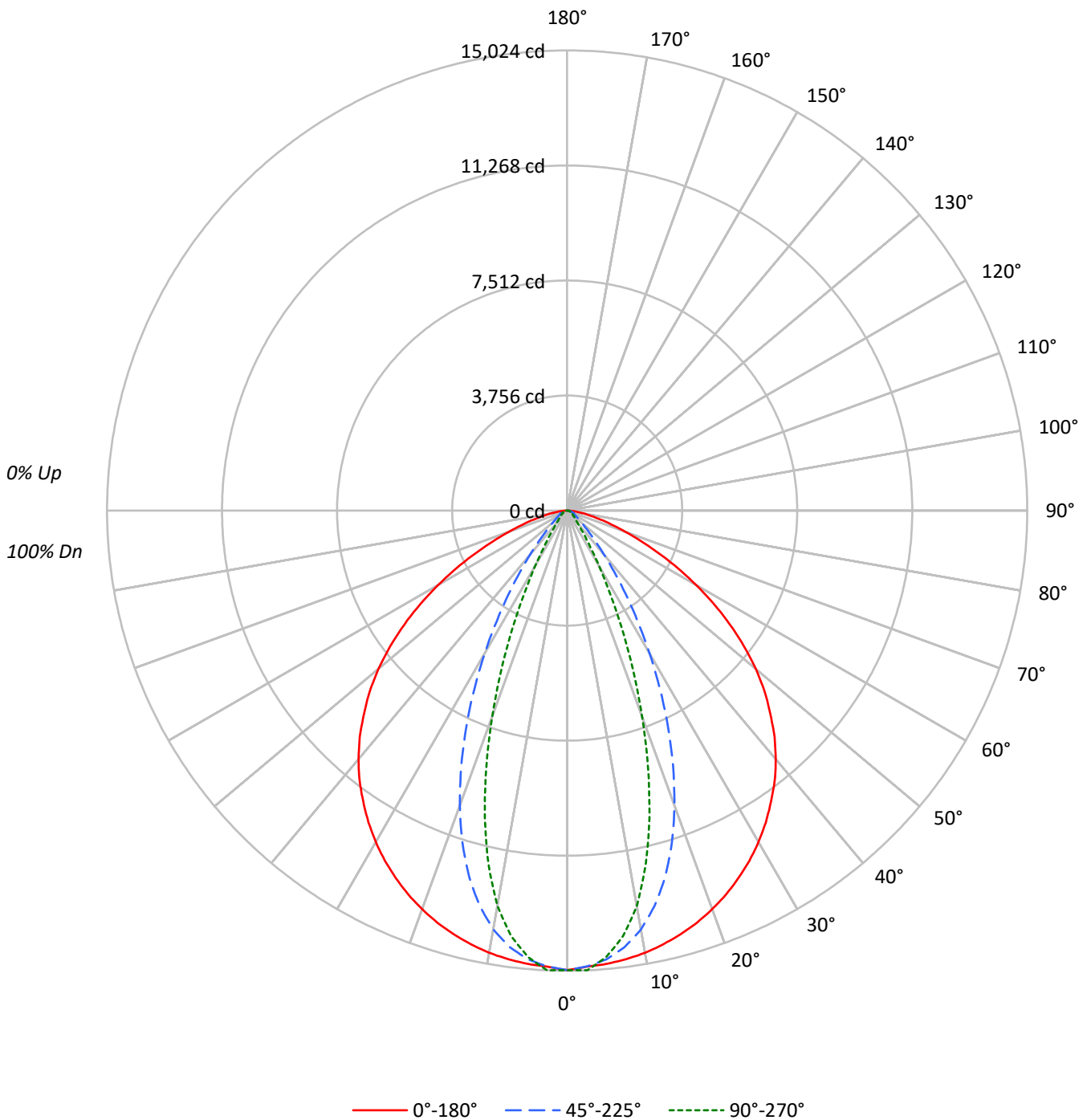
Lumens per Lamp: N/A
Luminaire Lumens: 16425.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20187	20187	20187
5°	20065	19865	19761
10°	20031	18966	17897
15°	19951	17240	14454
20°	19831	14669	10244
25°	19654	11567	6190
30°	19415	8348	3181
35°	19064	5458	1589
40°	18612	3278	927
45°	17839	1958	693
50°	16825	1280	582
55°	15228	971	508
60°	13086	827	464
65°	10526	755	438
70°	7930	808	435
75°	5833	768	448
80°	4268	766	490
85°	3196	928	634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1381.7	8.4
10°-20°	3437.4	20.9
20°-30°	3807.4	23.2
30°-40°	3050.4	18.6
40°-50°	2177.6	13.3
50°-60°	1398.7	8.5
60°-70°	758.0	4.6
70°-80°	324.0	2.0
80°-90°	89.9	0.5
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°	8626.5	52.5
0°-40°	11676.9	71.1
0°-60°	15253.2	92.9
0°-90°	16425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15003	15003	15003	15003	15003	
5°	14856	14911	14708	14662	14631	###
15°	14323	13875	12376	10937	10376	4041
25°	13238	11673	7792	5076	4169	6099
35°	11607	8395	3323	1340	967	7257
45°	9375	4846	1029	438	364	7226
55°	6492	2167	414	254	216	5785
65°	3306	890	237	164	138	3311
75°	1122	326	148	103	86	1247
85°	207	86	60	50	41	253
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15003.1	15003.1	15003.1	15003.1	15003.1
2.5°	14904.3	14997.5	14897.2	14959.6	15023.6
5°	14856.1	14911.4	14708.3	14661.7	14630.9
7.5°	14772.3	14756.5	14374.8	14127.5	14008.2
10°	14661.7	14533.7	13881.7	13338.1	13099.4
12.5°	14503.6	14239.7	13214.0	12259.4	11854.8
15°	14322.7	13874.6	12376.4	10937.4	10376.3
17.5°	14106.2	13447.9	11375.2	9519.7	8779.3
20°	13850.1	12932.7	10245.2	8013.6	7154.6
22.5°	13564.1	12338.4	9035.3	6512.2	5590.8
25°	13238.5	11673.1	7791.5	5076.4	4169.2
27.5°	12886.9	10934.2	6554.8	3793.0	2965.7
30°	12496.5	10134.5	5373.5	2734.9	2047.5
32.5°	12070.6	9284.3	4275.9	1923.4	1400.3
35°	11606.7	8395.3	3322.9	1340.2	967.2
37.5°	11131.8	7488.1	2509.7	947.5	693.8
40°	10596.8	6584.1	1866.5	693.8	527.9
42.5°	10022.3	5697.5	1381.3	534.2	427.5
45°	9375.1	4846.4	1028.9	437.8	364.3
47.5°	8747.7	4053.0	781.5	373.0	316.9
50°	8038.1	3337.1	611.6	325.6	278.2
52.5°	7285.0	2707.3	496.3	286.8	245.0
55°	6491.6	2166.8	414.1	254.4	216.5
57.5°	5688.0	1716.4	354.0	226.8	192.8
60°	4863.0	1372.6	307.4	203.1	172.3
62.5°	4057.8	1097.6	268.7	182.5	154.1
65°	3306.3	889.8	237.1	163.6	137.5
67.5°	2611.7	703.3	221.3	147.0	124.1
70°	2015.8	547.6	205.5	131.2	110.6
72.5°	1527.5	420.4	181.7	117.0	98.0
75°	1122.1	325.6	147.8	102.7	86.1
77.5°	802.9	250.5	120.1	89.3	74.3
80°	550.8	186.5	98.8	76.7	63.2
82.5°	358.0	132.0	79.8	63.2	52.2
85°	207.0	86.1	60.1	49.8	41.1
87.5°	89.3	47.4	41.1	37.1	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)