

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-LD5-12HE-N-CLI-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-N-CLI-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

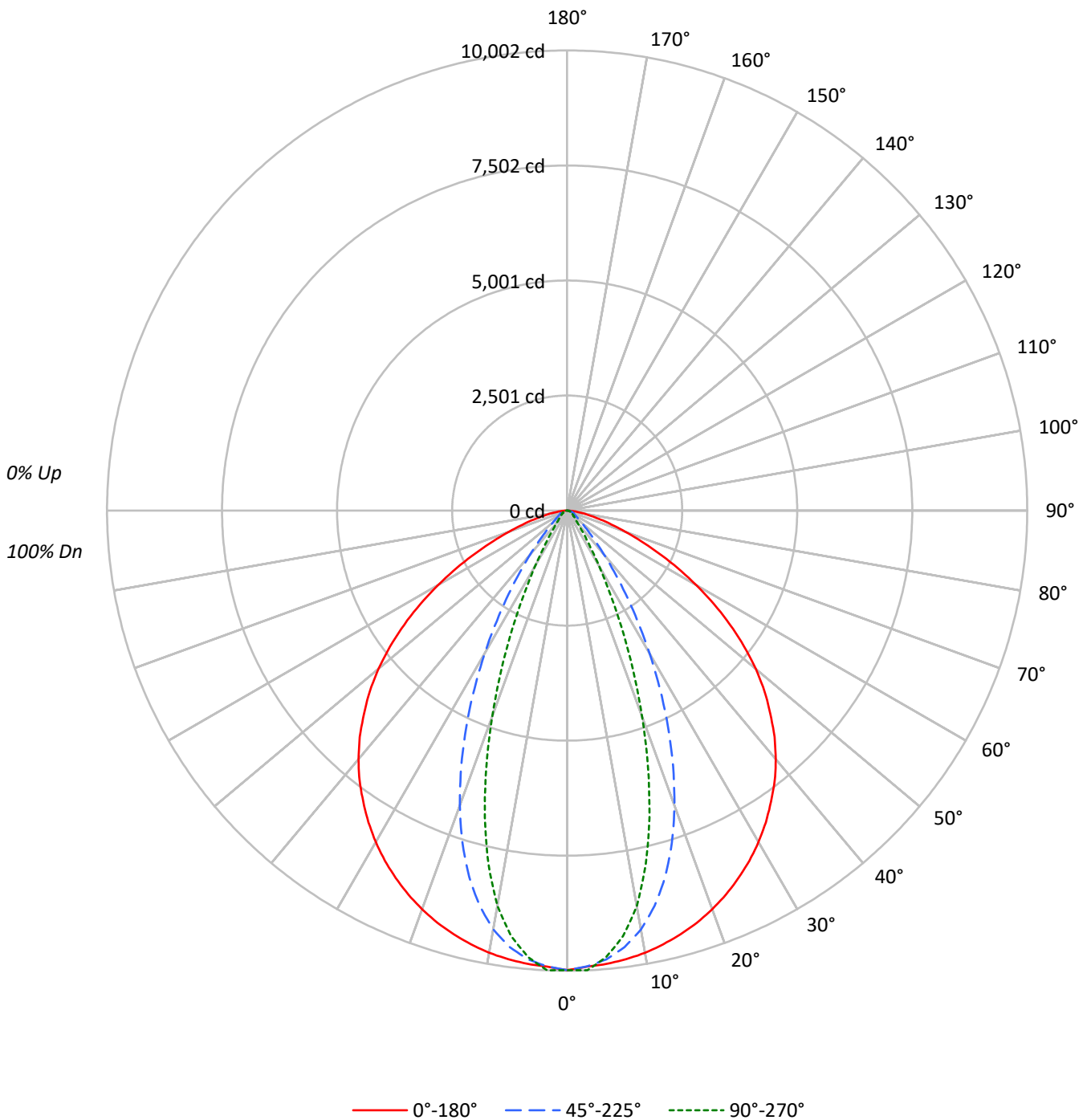
Lumens per Lamp: N/A
Luminaire Lumens: 10935.0 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.6
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°	13439	13439	13439
5°	13358	13225	13156
10°	13336	12627	11915
15°	13282	11477	9623
20°	13203	9766	6820
25°	13085	7701	4121
30°	12926	5558	2118
35°	12692	3634	1058
40°	12391	2183	617
45°	11876	1303	461
50°	11202	852	388
55°	10138	647	338
60°	8712	551	309
65°	7008	502	291
70°	5280	538	290
75°	3883	512	298
80°	2841	510	326
85°	2127	618	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	919.9	8.4
10°-20°	2288.4	20.9
20°-30°	2534.8	23.2
30°-40°	2030.8	18.6
40°-50°	1449.7	13.3
50°-60°	931.2	8.5
60°-70°	504.6	4.6
70°-80°	215.7	2.0
80°-90°	59.8	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°	5743.1	52.5
0°-40°	7773.9	71.1
0°-60°	10154.9	92.9
0°-90°	10935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9988	9988	9988	9988	9988	
5°	9890	9927	9792	9761	9740	940
15°	9535	9237	8240	7282	6908	2690
25°	8814	7771	5187	3380	2776	4060
35°	7727	5589	2212	892	644	4831
45°	6242	3226	685	292	242	4811
55°	4322	1442	276	169	144	3852
65°	2201	592	158	109	92	2204
75°	747	217	98	68	57	830
85°	138	57	40	33	27	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9988.3	9988.3	9988.3	9988.3	9988.3
2.5°	9922.6	9984.6	9917.8	9959.4	10002.0
5°	9890.5	9927.3	9792.1	9761.1	9740.5
7.5°	9834.7	9824.2	9570.1	9405.4	9326.0
10°	9761.1	9675.8	9241.8	8879.9	8721.0
12.5°	9655.8	9480.1	8797.3	8161.8	7892.4
15°	9535.4	9237.1	8239.6	7281.6	6908.1
17.5°	9391.2	8953.0	7573.1	6337.8	5844.9
20°	9220.8	8610.0	6820.7	5335.1	4763.2
22.5°	9030.3	8214.4	6015.3	4335.5	3722.1
25°	8813.6	7771.4	5187.2	3379.6	2775.6
27.5°	8579.5	7279.5	4363.9	2525.2	1974.4
30°	8319.6	6747.1	3577.4	1820.8	1363.1
32.5°	8036.0	6181.0	2846.7	1280.5	932.2
35°	7727.2	5589.2	2212.2	892.2	643.9
37.5°	7411.0	4985.2	1670.9	630.8	461.9
40°	7054.9	4383.4	1242.6	461.9	351.4
42.5°	6672.4	3793.1	919.6	355.6	284.6
45°	6241.5	3226.5	685.0	291.5	242.5
47.5°	5823.8	2698.3	520.3	248.3	211.0
50°	5351.4	2221.7	407.2	216.7	185.2
52.5°	4850.0	1802.4	330.4	191.0	163.1
55°	4321.8	1442.5	275.7	169.4	144.1
57.5°	3786.8	1142.7	235.7	151.0	128.4
60°	3237.6	913.8	204.6	135.2	114.7
62.5°	2701.5	730.7	178.9	121.5	102.6
65°	2201.2	592.4	157.8	108.9	91.5
67.5°	1738.7	468.2	147.3	97.9	82.6
70°	1342.1	364.6	136.8	87.3	73.7
72.5°	1016.9	279.9	121.0	77.9	65.2
75°	747.0	216.7	98.4	68.4	57.3
77.5°	534.5	166.8	80.0	59.4	49.5
80°	366.7	124.2	65.8	51.0	42.1
82.5°	238.3	87.9	53.1	42.1	34.7
85°	137.8	57.3	40.0	33.1	27.4
87.5°	59.4	31.6	27.4	24.7	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)