

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-LD5-12SE-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-LD5-12SE-N-CLI-UNV-L750-ED1-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

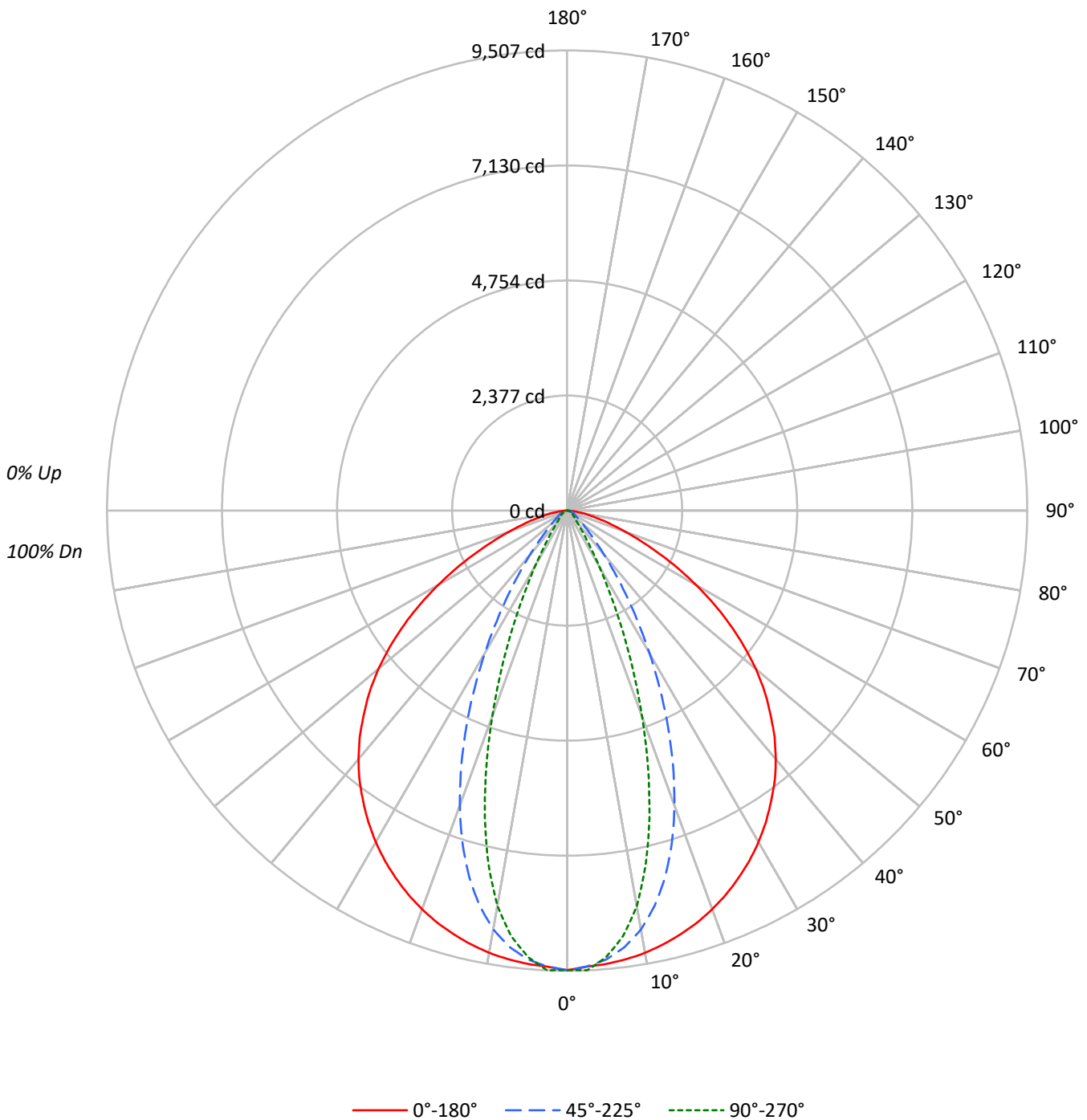
Lumens per Lamp: N/A  
Luminaire Lumens: 10394.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 76.6  
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°	12774	12774	12774
5°	12698	12571	12505
10°	12676	12002	11325
15°	12625	10910	9147
20°	12550	9283	6483
25°	12437	7320	3917
30°	12286	5283	2013
35°	12064	3454	1005
40°	11778	2074	587
45°	11289	1239	439
50°	10647	810	368
55°	9637	615	321
60°	8281	523	293
65°	6661	478	277
70°	5019	511	275
75°	3692	486	283
80°	2700	484	310
85°	2022	587	401



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	874.4	8.4
10°-20°	2175.2	20.9
20°-30°	2409.4	23.2
30°-40°	1930.3	18.6
40°-50°	1378.0	13.3
50°-60°	885.1	8.5
60°-70°	479.7	4.6
70°-80°	205.0	2.0
80°-90°	56.9	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°	5459.0	52.5
0°-40°	7389.3	71.1
0°-60°	9652.4	92.9
0°-90°	10394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10394.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9494	9494	9494	9494	9494	
5°	9401	9436	9308	9278	9259	894
15°	9064	8780	7832	6921	6566	2557
25°	8378	7387	4931	3212	2638	3859
35°	7345	5313	2103	848	612	4592
45°	5933	3067	651	277	230	4573
55°	4108	1371	262	161	137	3661
65°	2092	563	150	104	87	2095
75°	710	206	94	65	54	789
85°	131	54	38	32	26	160
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9494.2	9494.2	9494.2	9494.2	9494.2
2.5°	9431.7	9490.7	9427.2	9466.7	9507.2
5°	9401.2	9436.2	9307.6	9278.1	9258.6
7.5°	9348.1	9338.1	9096.6	8940.1	8864.6
10°	9278.1	9197.1	8784.6	8440.5	8289.5
12.5°	9178.1	9011.1	8362.0	7758.0	7501.9
15°	9063.6	8780.1	7832.0	6921.4	6566.3
17.5°	8926.6	8510.0	7198.4	6024.2	5555.7
20°	8764.6	8184.0	6483.3	5071.1	4527.6
22.5°	8583.6	7808.0	5717.7	4121.0	3537.9
25°	8377.5	7386.9	4930.6	3212.4	2638.3
27.5°	8155.0	6919.4	4148.0	2400.3	1876.7
30°	7908.0	6413.3	3400.4	1730.7	1295.7
32.5°	7638.4	5875.2	2705.8	1217.1	886.1
35°	7344.9	5312.7	2102.8	848.1	612.1
37.5°	7044.4	4738.6	1588.2	599.6	439.1
40°	6705.8	4166.5	1181.1	439.1	334.0
42.5°	6342.3	3605.4	874.1	338.0	270.5
45°	5932.7	3066.9	651.1	277.0	230.5
47.5°	5535.7	2564.8	494.6	236.0	200.5
50°	5086.6	2111.8	387.0	206.0	176.0
52.5°	4610.1	1713.2	314.0	181.5	155.0
55°	4108.0	1371.2	262.0	161.0	137.0
57.5°	3599.4	1086.1	224.0	143.5	122.0
60°	3077.4	868.6	194.5	128.5	109.0
62.5°	2567.8	694.6	170.0	115.5	97.5
65°	2092.3	563.1	150.0	103.5	87.0
67.5°	1652.7	445.1	140.0	93.0	78.5
70°	1275.7	346.5	130.0	83.0	70.0
72.5°	966.6	266.0	115.0	74.0	62.0
75°	710.1	206.0	93.5	65.0	54.5
77.5°	508.1	158.5	76.0	56.5	47.0
80°	348.5	118.0	62.5	48.5	40.0
82.5°	226.5	83.5	50.5	40.0	33.0
85°	131.0	54.5	38.0	31.5	26.0
87.5°	56.5	30.0	26.0	23.5	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)