

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-L740-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-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

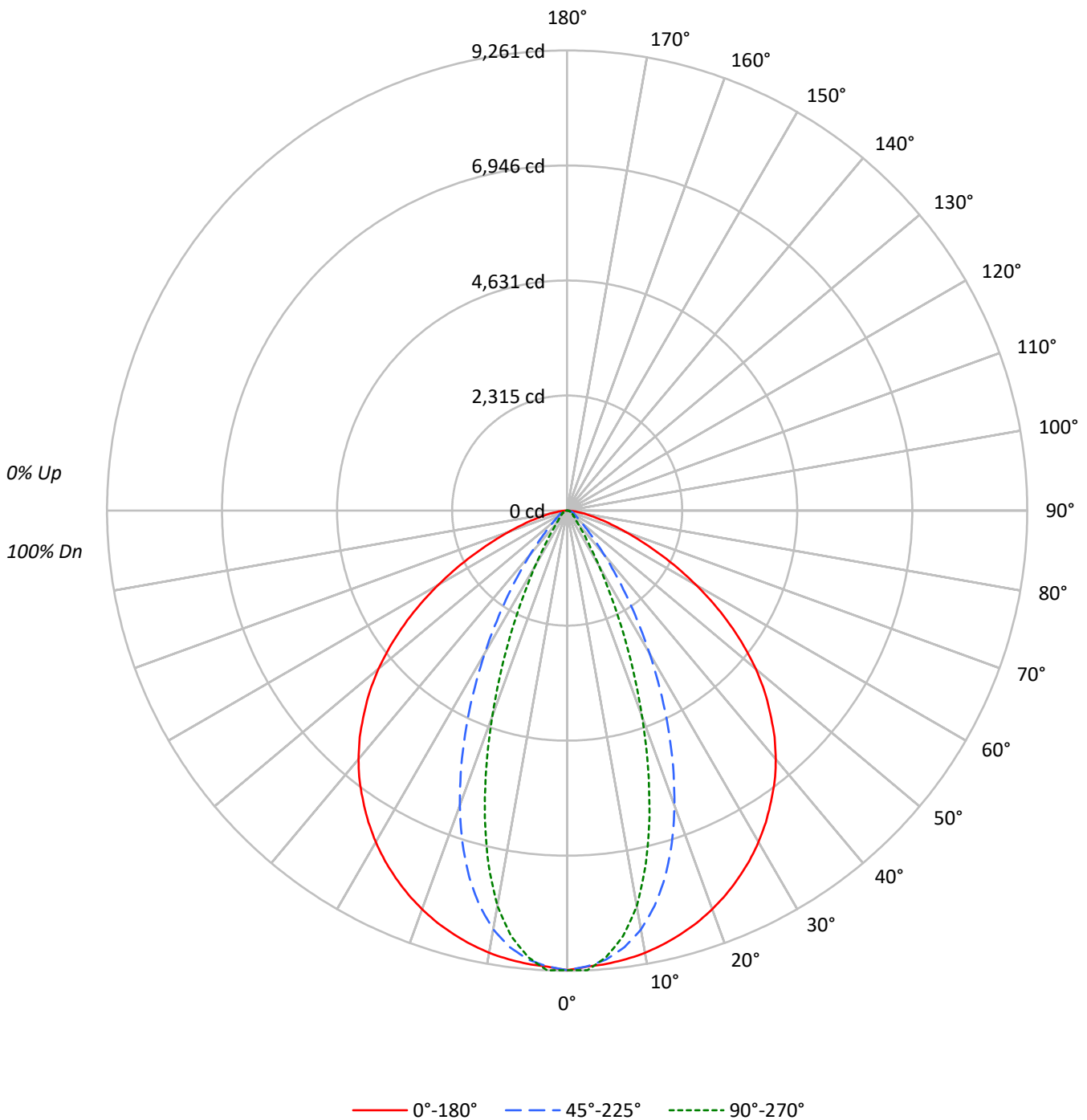
Lumens per Lamp: N/A
Luminaire Lumens: 10125.0 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	12444	12444	12444
5°	12369	12246	12181
10°	12348	11691	11032
15°	12298	10627	8910
20°	12225	9043	6315
25°	12115	7130	3815
30°	11968	5146	1961
35°	11752	3364	979
40°	11473	2021	572
45°	10997	1207	427
50°	10372	789	359
55°	9387	599	313
60°	8067	510	286
65°	6489	465	270
70°	4888	498	268
75°	3596	474	276
80°	2631	472	302
85°	1970	571	391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	851.7	8.4
10°-20°	2118.9	20.9
20°-30°	2347.0	23.2
30°-40°	1880.4	18.6
40°-50°	1342.3	13.3
50°-60°	862.2	8.5
60°-70°	467.3	4.6
70°-80°	199.7	2.0
80°-90°	55.4	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°	5317.7	52.5
0°-40°	7198.1	71.1
0°-60°	9402.6	92.9
0°-90°	10125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9248	9248	9248	9248	9248	
5°	9158	9192	9067	9038	9019	870
15°	8829	8553	7629	6742	6396	2491
25°	8161	7196	4803	3129	2570	3759
35°	7155	5175	2048	826	596	4474
45°	5779	2988	634	270	225	4455
55°	4002	1336	255	157	134	3566
65°	2038	548	146	101	85	2041
75°	692	201	91	63	53	769
85°	128	53	37	31	25	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9248.5	9248.5	9248.5	9248.5	9248.5
2.5°	9187.6	9245.0	9183.2	9221.7	9261.1
5°	9157.9	9191.9	9066.8	9038.0	9019.0
7.5°	9106.2	9096.5	8861.2	8708.7	8635.2
10°	9038.0	8959.1	8557.2	8222.1	8075.0
12.5°	8940.6	8777.9	8145.6	7557.2	7307.8
15°	8829.0	8552.8	7629.3	6742.2	6396.4
17.5°	8695.6	8289.8	7012.1	5868.3	5411.9
20°	8537.7	7972.2	6315.5	4939.9	4410.4
22.5°	8361.4	7605.9	5569.7	4014.4	3446.4
25°	8160.7	7195.7	4803.0	3129.3	2570.0
27.5°	7943.9	6740.3	4040.7	2338.2	1828.2
30°	7703.3	6247.3	3312.4	1685.9	1262.1
32.5°	7440.8	5723.2	2635.8	1185.6	863.2
35°	7154.8	5175.2	2048.3	826.2	596.2
37.5°	6862.1	4615.9	1547.1	584.1	427.7
40°	6532.3	4058.7	1150.6	427.7	325.4
42.5°	6178.1	3512.1	851.5	329.3	263.5
45°	5779.2	2987.5	634.2	269.9	224.6
47.5°	5392.4	2498.4	481.8	229.9	195.3
50°	4955.0	2057.1	377.0	200.7	171.5
52.5°	4490.8	1668.9	305.9	176.8	151.0
55°	4001.7	1335.7	255.3	156.9	133.5
57.5°	3506.3	1058.0	218.2	139.8	118.9
60°	2997.7	846.1	189.5	125.2	106.2
62.5°	2501.4	676.6	165.6	112.5	95.0
65°	2038.1	548.5	146.1	100.8	84.8
67.5°	1609.9	433.5	136.4	90.6	76.5
70°	1242.6	337.6	126.7	80.9	68.2
72.5°	941.6	259.1	112.0	72.1	60.4
75°	691.7	200.7	91.1	63.3	53.1
77.5°	494.9	154.4	74.0	55.0	45.8
80°	339.5	115.0	60.9	47.3	39.0
82.5°	220.7	81.3	49.2	39.0	32.1
85°	127.6	53.1	37.0	30.7	25.3
87.5°	55.0	29.2	25.3	22.9	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)