

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-UNV-L850-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 (P23767)
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-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

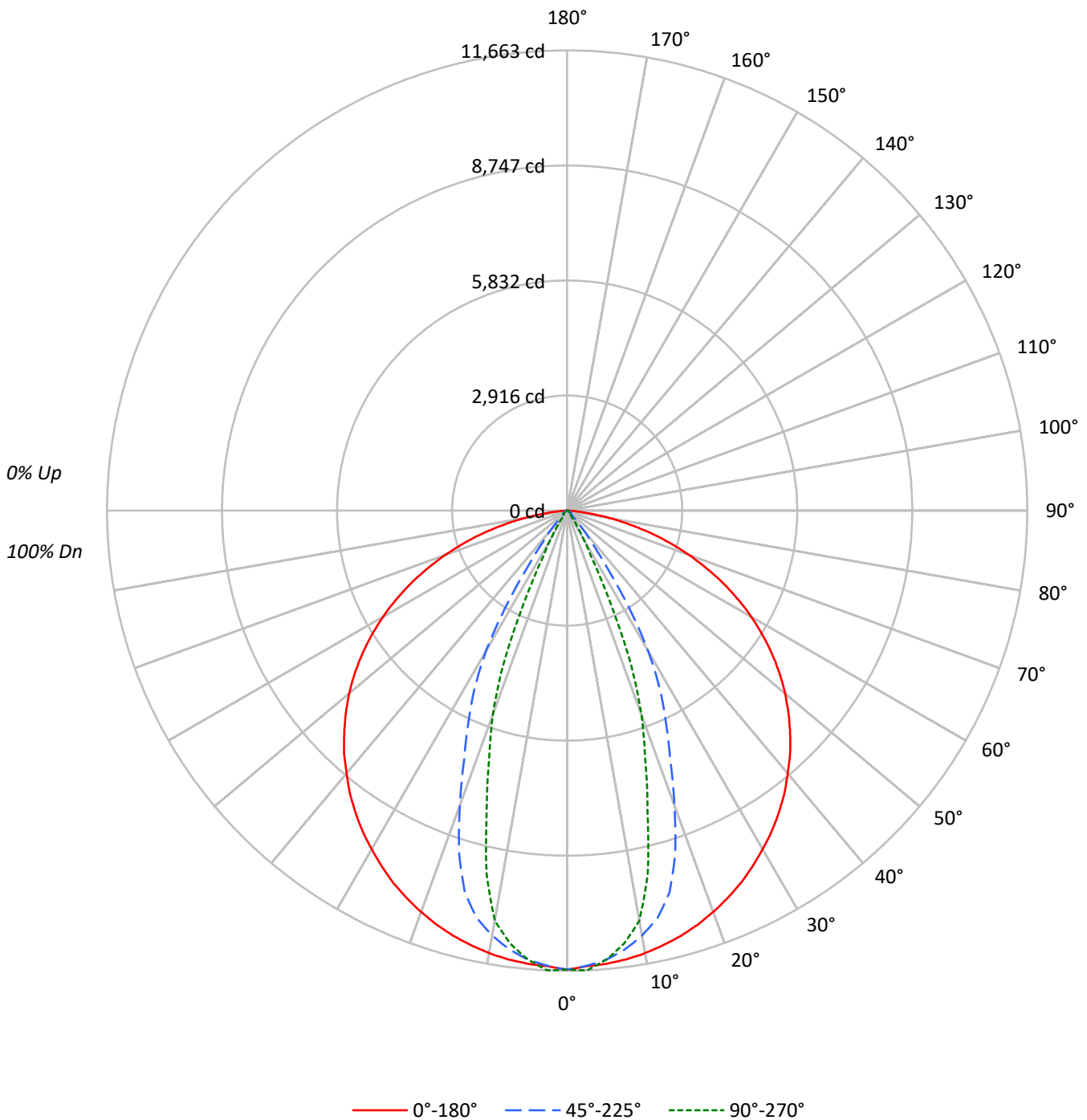
Lumens per Lamp: N/A
Luminaire Lumens: 12366.0 lumens
Efficiency: N/A
Efficacy: 170.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15654	15654	15654
5°	15570	15433	15426
10°	15561	14938	14414
15°	15539	13956	10970
20°	15503	11377	7896
25°	15463	8797	3890
30°	15395	6393	1261
35°	15358	2836	325
40°	15278	1152	219
45°	15210	323	233
50°	15091	229	258
55°	14874	273	110
60°	14507	304	67
65°	13910	194	79
70°	12922	172	98
75°	11305	129	135
80°	8453	159	193
85°	4187	205	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1079.7	8.7
10°-20°	2699.8	21.8
20°-30°	2924.3	23.6
30°-40°	2165.6	17.5
40°-50°	1559.8	12.6
50°-60°	965.8	7.8
60°-70°	593.9	4.8
70°-80°	313.1	2.5
80°-90°	64.1	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°	6703.8	54.2
0°-40°	8869.3	71.7
0°-60°	11394.8	92.1
0°-90°	12366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12366.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11634	11634	11634	11634	11634	
5°	11528	11571	11426	11435	11421	###
15°	11155	10896	10019	8520	7875	3149
25°	10416	9541	5926	3728	2620	4799
35°	9350	6592	1727	406	198	5850
45°	7993	3714	170	123	122	6164
55°	6341	765	116	105	47	5660
65°	4369	81	61	39	25	4311
75°	2175	19	25	33	26	2297
85°	271	7	13	20	17	410
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11634.5	11634.5	11634.5	11634.5	11634.5
2.5°	11559.8	11633.4	11546.5	11611.2	11662.7
5°	11528.2	11570.8	11426.4	11434.7	11421.4
7.5°	11472.9	11462.9	11219.9	11113.7	11067.2
10°	11389.3	11323.4	10933.8	10711.9	10550.2
12.5°	11281.4	11134.2	10576.8	9871.1	9432.8
15°	11155.2	10896.2	10018.9	8520.1	7875.3
17.5°	11004.6	10637.7	9106.8	7140.9	6565.3
20°	10827.0	10349.3	7945.6	6075.4	5514.8
22.5°	10628.8	9998.4	6817.6	5049.3	4249.5
25°	10415.8	9540.7	5925.5	3727.6	2620.1
27.5°	10169.5	8952.4	5088.6	2195.6	1337.2
30°	9908.8	8243.9	4115.1	1181.1	811.9
32.5°	9645.9	7440.9	2911.8	737.8	460.5
35°	9350.3	6591.8	1726.8	406.2	197.6
37.5°	9042.0	5813.6	1020.6	184.9	126.7
40°	8698.3	5102.4	655.9	122.9	124.5
42.5°	8366.3	4439.4	369.2	121.2	123.4
45°	7993.2	3713.8	169.9	122.9	122.3
47.5°	7607.4	2961.6	110.1	124.0	124.0
50°	7209.5	2117.6	109.6	126.7	123.4
52.5°	6789.4	1321.1	114.0	126.2	101.3
55°	6340.6	764.9	116.2	105.2	47.0
57.5°	5875.6	451.1	117.3	60.3	26.6
60°	5390.8	249.6	112.9	44.8	24.9
62.5°	4891.0	119.0	89.1	42.1	24.4
65°	4369.1	80.8	60.9	38.7	24.9
67.5°	3827.2	62.5	48.2	36.5	25.5
70°	3284.8	46.5	43.7	36.5	24.9
72.5°	2733.6	31.5	36.5	37.1	24.9
75°	2174.6	18.8	24.9	32.7	26.0
77.5°	1620.6	11.6	19.4	33.8	31.5
80°	1090.9	10.0	20.5	31.5	24.9
82.5°	640.4	8.9	19.9	24.4	19.9
85°	271.2	7.2	13.3	19.9	16.6
87.5°	50.9	6.1	10.5	16.1	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)