

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-W-AI-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 (P23765)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-AI-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

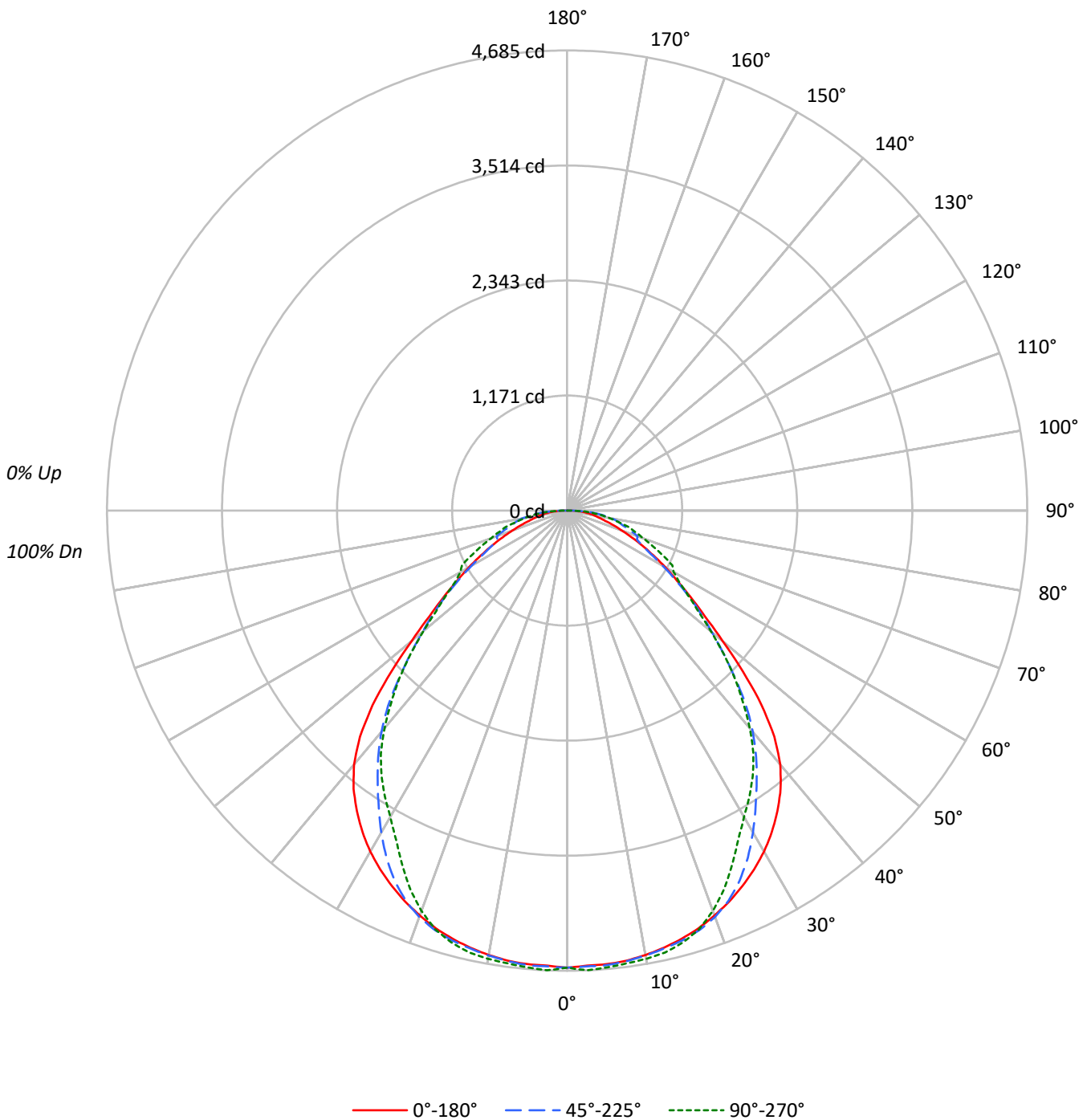
Lumens per Lamp: N/A
Luminaire Lumens: 10772.0 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6262	6262	6262
5°	6261	6275	6306
10°	6277	6285	6331
15°	6287	6310	6341
20°	6280	6304	6210
25°	6264	6171	5902
30°	6227	5879	5593
35°	6134	5526	5411
40°	5929	5167	5082
45°	5329	4614	4597
50°	4322	4019	3991
55°	3589	3522	3521
60°	3107	3016	3372
65°	2693	2676	3399
70°	2322	3002	3240
75°	2082	3077	3378
80°	2164	3622	3389
85°	2458	4173	3872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.1	4.1
10°-20°	1279.7	11.9
20°-30°	1900.7	17.6
30°-40°	2157.8	20.0
40°-50°	1929.0	17.9
50°-60°	1333.7	12.4
60°-70°	880.0	8.2
70°-80°	593.7	5.5
80°-90°	254.3	2.4
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°	3623.5	33.6
0°-40°	5781.3	53.7
0°-60°	9043.9	84.0
0°-90°	10772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4654	4654	4654	4654	4654	
5°	4636	4664	4646	4665	4669	441
15°	4513	4535	4530	4555	4552	1274
25°	4220	4260	4156	4032	3976	1944
35°	3734	3656	3364	3315	3294	2329
45°	2800	2563	2425	2443	2416	2130
55°	1530	1396	1501	1480	1501	1390
65°	846	751	840	983	1068	844
75°	400	504	592	632	650	437
85°	159	221	270	272	251	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4653.8	4653.8	4653.8	4653.8	4653.8
2.5°	4638.0	4667.0	4645.4	4665.4	4684.9
5°	4635.9	4664.4	4645.9	4664.9	4668.6
7.5°	4622.7	4649.1	4627.5	4645.9	4650.1
10°	4594.3	4625.4	4600.1	4628.5	4633.8
12.5°	4557.4	4589.0	4566.9	4605.9	4608.0
15°	4513.1	4534.7	4530.0	4555.3	4552.1
17.5°	4457.3	4482.0	4478.3	4484.7	4469.9
20°	4386.1	4414.1	4402.5	4373.5	4337.1
22.5°	4309.7	4343.4	4297.6	4224.3	4173.2
25°	4219.6	4259.6	4156.4	4032.5	3975.6
27.5°	4120.0	4155.8	3984.0	3832.3	3773.2
30°	4008.3	4023.6	3784.3	3639.9	3599.9
32.5°	3879.2	3857.0	3570.9	3475.5	3452.3
35°	3734.2	3655.7	3364.3	3315.3	3294.2
37.5°	3570.9	3427.0	3160.4	3137.7	3115.6
40°	3375.4	3163.0	2941.7	2926.9	2893.2
42.5°	3122.9	2875.8	2698.7	2681.3	2651.3
45°	2800.4	2563.3	2424.7	2443.1	2415.7
47.5°	2429.4	2249.7	2161.7	2212.3	2161.7
50°	2064.7	1944.1	1919.8	1965.7	1906.6
52.5°	1765.9	1657.4	1707.4	1715.3	1680.0
55°	1529.8	1396.5	1501.4	1480.3	1500.9
57.5°	1324.3	1175.2	1304.3	1280.1	1350.7
60°	1154.6	987.0	1120.9	1115.6	1253.2
62.5°	988.1	854.2	961.8	1039.2	1208.4
65°	845.8	751.0	840.5	982.8	1067.7
67.5°	709.3	673.5	768.9	847.9	940.7
70°	590.2	608.7	763.1	748.3	823.7
72.5°	490.1	552.8	673.5	676.1	729.4
75°	400.5	503.8	591.8	632.4	649.8
77.5°	333.1	456.9	534.4	548.6	531.7
80°	279.3	402.6	467.4	461.1	437.4
82.5°	225.6	305.1	368.4	374.2	346.2
85°	159.2	221.3	270.3	271.9	250.8
87.5°	85.4	136.5	163.9	168.6	156.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)