

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-W-WG-UNV-L735-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12HE-W-WG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

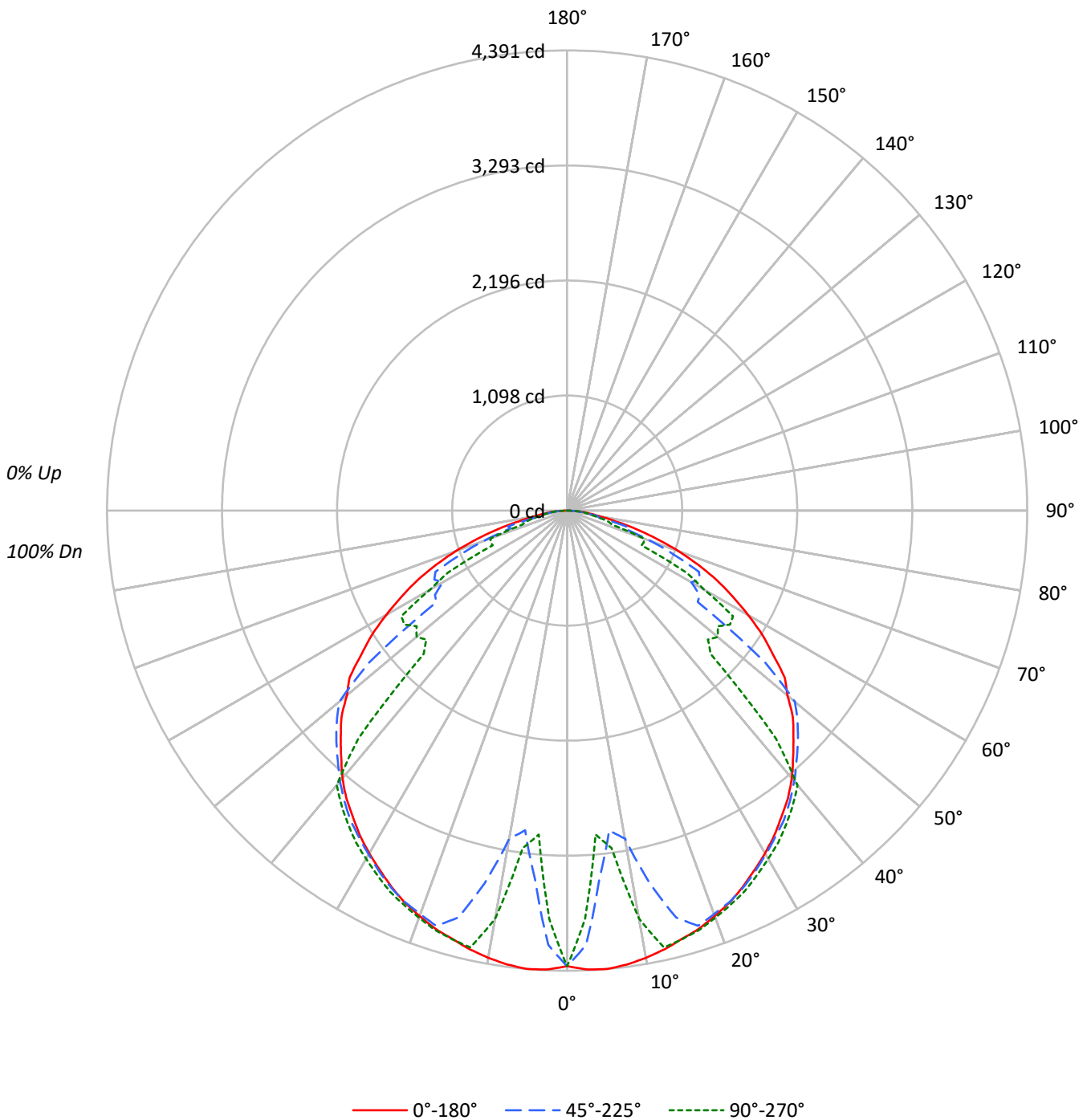
Lumens per Lamp: N/A
Luminaire Lumens: 11517.0 lumens
Efficiency: N/A
Efficacy: 158.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5849	5849	5849
5°	5931	4764	4190
10°	5920	4345	5404
15°	5894	5600	5899
20°	5894	5867	5920
25°	5884	5897	5951
30°	5867	5886	5962
35°	5857	5922	5991
40°	5858	5922	6007
45°	5812	5926	3683
50°	5746	5938	3925
55°	5625	3570	4448
60°	5366	3680	4073
65°	5028	4419	2493
70°	4439	3348	3055
75°	3538	3043	2118
80°	2437	2199	1821
85°	2336	2030	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	3.0
10°-20°	1089.1	9.5
20°-30°	1791.8	15.6
30°-40°	2252.9	19.6
40°-50°	2209.5	19.2
50°-60°	1830.7	15.9
60°-70°	1291.2	11.2
70°-80°	563.4	4.9
80°-90°	140.7	1.2
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°	3228.5	28.0
0°-40°	5481.4	47.6
0°-60°	9521.7	82.7
0°-90°	11517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4347	4347	4347	4347	4347	
5°	4391	4087	3528	3198	3102	417
15°	4231	2939	4020	4248	4235	1197
25°	3963	3626	3972	3998	4008	1827
35°	3566	3564	3606	3629	3648	2234
45°	3054	3064	3114	2758	1935	2358
55°	2398	2476	1522	1730	1896	2146
65°	1579	1672	1388	1068	783	1553
75°	680	667	585	383	408	730
85°	151	135	132	126	125	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4347.3	4347.3	4347.3	4347.3	4347.3
2.5°	4383.2	4292.2	4147.7	3965.7	3901.3
5°	4391.0	4086.9	3527.5	3198.5	3102.3
7.5°	4368.6	3714.1	3075.3	3144.4	3246.3
10°	4333.3	3386.7	3180.3	3741.7	3955.3
12.5°	4288.0	3095.6	3643.5	4226.7	4269.3
15°	4231.4	2938.6	4020.3	4248.0	4235.0
17.5°	4183.5	3030.6	4155.5	4205.4	4196.0
20°	4116.5	3214.1	4097.8	4137.8	4134.2
22.5°	4048.9	3431.4	4043.2	4071.8	4071.8
25°	3963.1	3626.3	3972.0	3998.5	4008.4
27.5°	3869.1	3738.6	3883.1	3904.9	3922.6
30°	3776.0	3754.7	3788.5	3816.6	3837.3
32.5°	3677.8	3669.4	3696.0	3725.6	3752.1
35°	3566.0	3563.9	3605.5	3629.4	3647.6
37.5°	3461.0	3453.7	3492.2	3525.5	3539.5
40°	3335.2	3335.2	3371.6	3405.4	3419.9
42.5°	3191.7	3212.0	3240.1	3274.9	2949.5
45°	3054.5	3063.8	3114.3	2758.2	1935.3
47.5°	2922.5	2934.4	2982.2	1773.1	1821.5
50°	2745.2	2799.3	2836.7	1767.9	1875.0
52.5°	2615.8	2639.1	2381.3	1750.2	1810.5
55°	2398.0	2476.4	1522.0	1730.5	1896.3
57.5°	2211.9	2269.0	1496.6	1773.1	1876.0
60°	1994.0	2081.4	1367.7	1710.7	1513.7
62.5°	1785.1	1868.2	1428.0	1346.3	1281.9
65°	1579.2	1672.3	1387.9	1067.7	782.9
67.5°	1353.6	1266.8	1107.2	752.2	791.7
70°	1128.5	884.7	851.0	841.1	776.6
72.5°	897.2	645.6	565.0	631.1	451.7
75°	680.5	666.9	585.3	382.6	407.5
77.5°	472.0	481.4	313.5	373.2	309.8
80°	314.5	272.4	283.8	238.1	235.0
82.5°	217.8	222.5	186.6	180.9	183.5
85°	151.3	134.6	131.5	125.8	124.8
87.5°	50.4	58.7	54.6	49.4	52.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)