

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-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 (P23766)
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-CLI-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

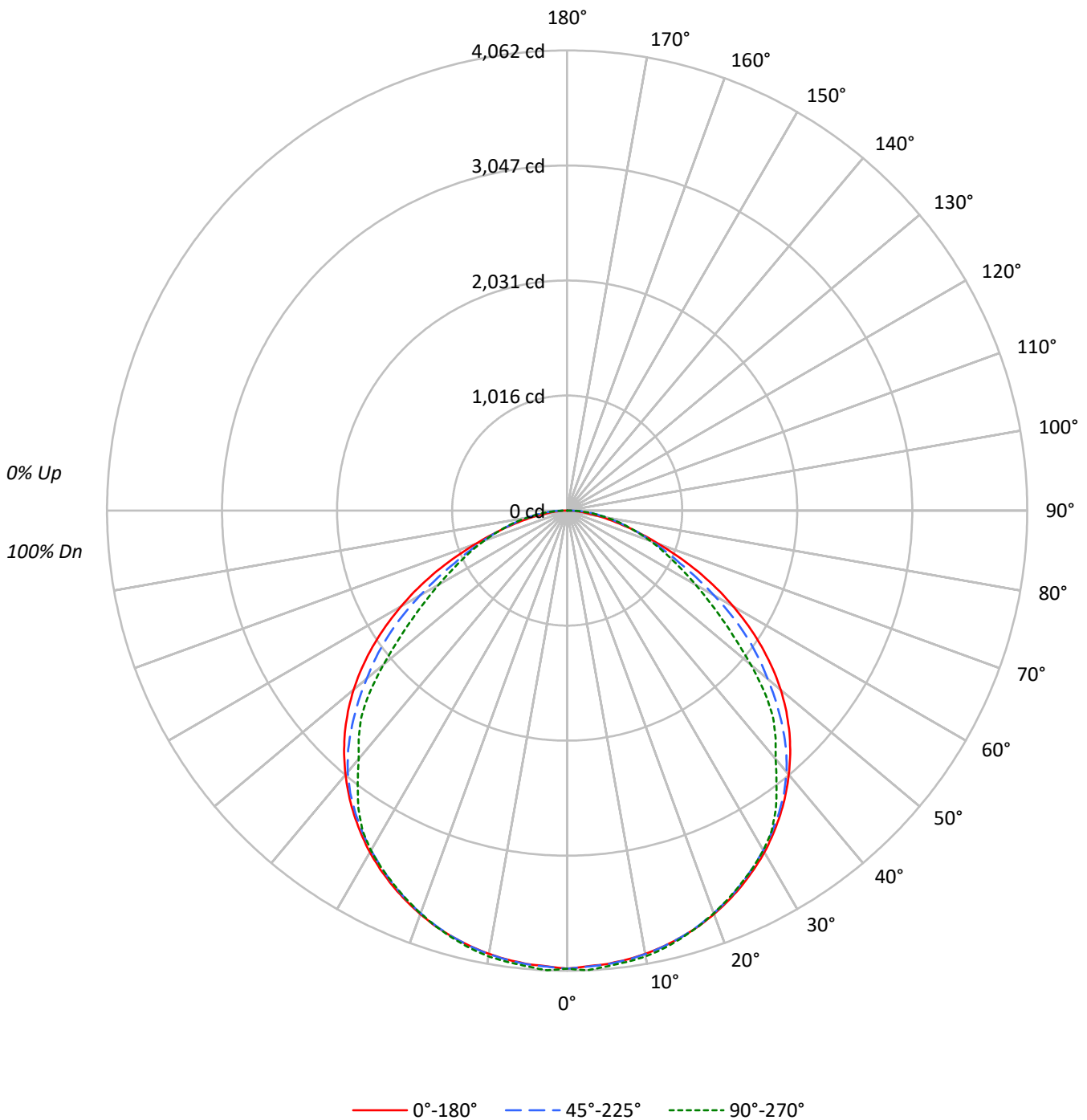
Lumens per Lamp: N/A
Luminaire Lumens: 10864.0 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5441	5441	5441
5°	5426	5430	5454
10°	5429	5432	5460
15°	5430	5429	5442
20°	5428	5416	5417
25°	5420	5400	5393
30°	5411	5379	5382
35°	5386	5353	5277
40°	5348	5293	5026
45°	5280	5111	4887
50°	5153	4839	4426
55°	4918	4525	3914
60°	4564	4038	3529
65°	4057	3496	3245
70°	3367	3124	3059
75°	2723	2859	2895
80°	2163	2734	2724
85°	1694	2938	2803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	3.5
10°-20°	1103.0	10.2
20°-30°	1681.9	15.5
30°-40°	2034.9	18.7
40°-50°	2061.2	19.0
50°-60°	1703.6	15.7
60°-70°	1125.2	10.4
70°-80°	586.7	5.4
80°-90°	183.9	1.7
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°	3168.5	29.2
0°-40°	5203.4	47.9
0°-60°	8968.1	82.5
0°-90°	10864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4044	4044	4044	4044	4044	
5°	4017	4042	4020	4038	4038	382
15°	3898	3918	3898	3910	3907	1101
25°	3651	3666	3637	3647	3633	1683
35°	3279	3284	3259	3254	3213	2051
45°	2775	2767	2686	2602	2568	2137
55°	2097	2066	1929	1742	1668	1869
65°	1274	1237	1098	1027	1019	1259
75°	524	533	550	557	557	571
85°	110	141	190	189	182	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4043.6	4043.6	4043.6	4043.6	4043.6
2.5°	4026.7	4050.4	4030.5	4048.0	4062.1
5°	4017.4	4041.7	4020.3	4037.8	4038.3
7.5°	3999.5	4023.7	4001.9	4019.4	4018.9
10°	3973.7	3996.6	3975.7	3996.6	3996.6
12.5°	3938.8	3961.1	3940.7	3960.1	3957.2
15°	3898.0	3917.9	3897.5	3909.7	3906.8
17.5°	3850.0	3867.9	3845.1	3855.3	3849.5
20°	3791.2	3807.7	3782.5	3795.6	3783.5
22.5°	3725.2	3740.7	3715.0	3724.7	3711.1
25°	3650.9	3665.5	3637.3	3646.6	3633.0
27.5°	3570.8	3583.9	3552.4	3563.6	3552.9
30°	3483.0	3489.3	3462.1	3476.7	3464.0
32.5°	3384.9	3388.8	3365.0	3378.1	3356.8
35°	3279.1	3283.5	3258.7	3254.3	3212.6
37.5°	3166.0	3167.9	3144.6	3105.3	3036.4
40°	3044.6	3043.7	3013.6	2922.8	2861.6
42.5°	2915.0	2914.5	2861.6	2758.2	2723.3
45°	2774.7	2767.4	2685.9	2602.4	2568.4
47.5°	2624.2	2616.5	2502.4	2435.9	2358.7
50°	2461.6	2448.0	2311.6	2220.8	2114.5
52.5°	2286.4	2265.5	2126.7	1980.1	1879.6
55°	2096.6	2065.5	1929.1	1741.7	1668.4
57.5°	1899.0	1852.9	1720.4	1537.8	1478.1
60°	1696.1	1644.6	1500.5	1350.5	1311.6
62.5°	1487.4	1436.4	1289.3	1176.2	1154.8
65°	1274.3	1237.4	1098.0	1026.7	1019.4
67.5°	1055.8	1042.7	936.4	900.0	897.1
70°	855.8	853.4	794.2	775.7	777.7
72.5°	684.0	681.1	672.3	663.1	663.6
75°	523.8	533.0	550.0	557.3	556.8
77.5°	390.8	409.7	445.6	460.2	457.8
80°	279.1	307.3	352.9	366.5	351.5
82.5°	185.9	215.5	269.4	271.4	259.2
85°	109.7	141.3	190.3	188.8	181.6
87.5°	54.4	85.0	114.1	109.2	104.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)