

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-FLI-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 (P26703)
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-FLI-UNV-L740-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

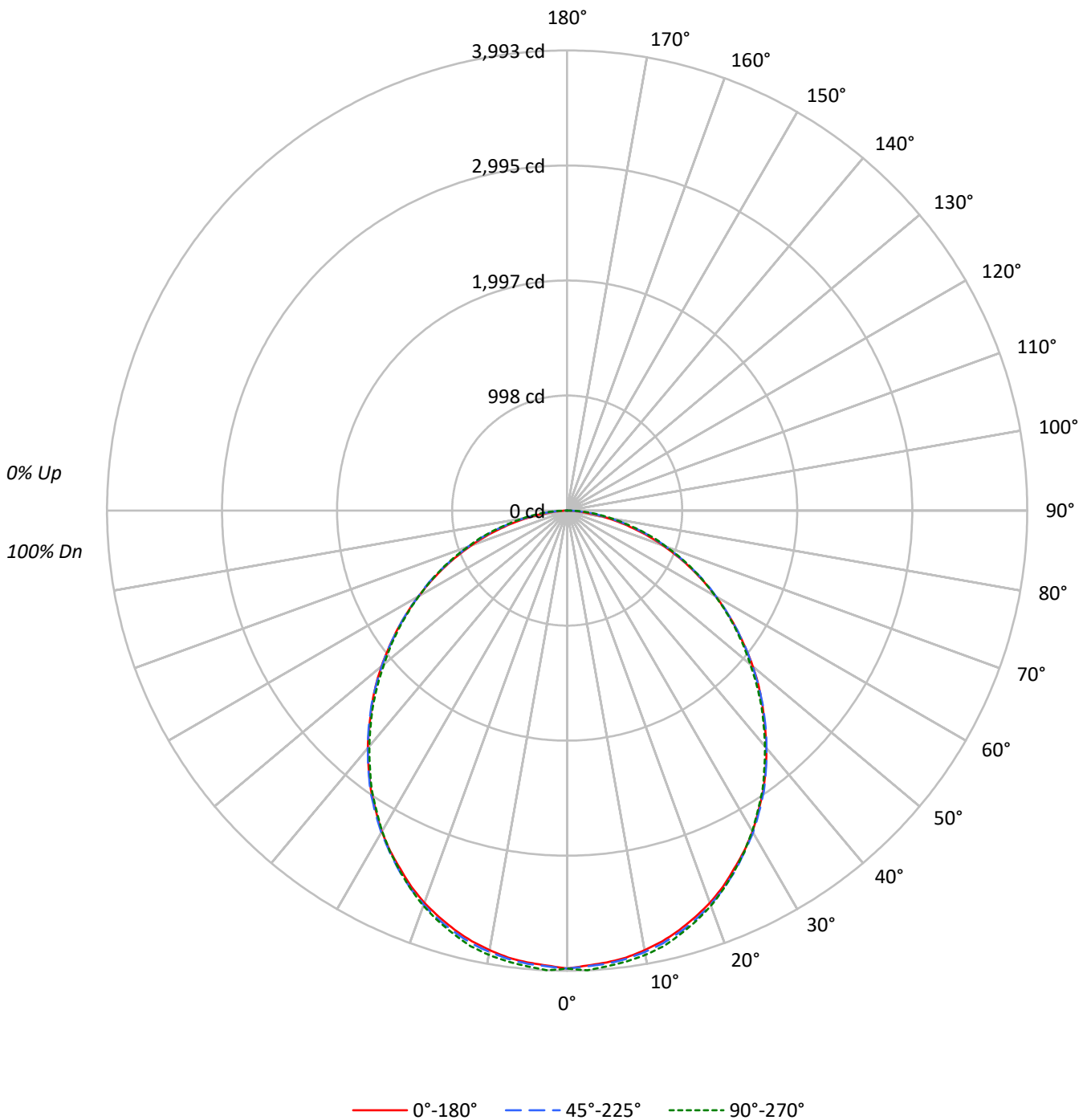
Lumens per Lamp: N/A
Luminaire Lumens: 10380.0 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	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	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5347	5347	5347
5°	5316	5331	5362
10°	5292	5313	5348
15°	5246	5274	5300
20°	5186	5211	5226
25°	5090	5119	5112
30°	4996	5010	4989
35°	4873	4885	4854
40°	4726	4726	4690
45°	4561	4573	4527
50°	4404	4397	4342
55°	4214	4214	4176
60°	4009	4014	3999
65°	3779	3817	3826
70°	3490	3586	3590
75°	3084	3284	3335
80°	2530	2876	3039
85°	1755	2414	2731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.8	3.6
10°-20°	1069.1	10.3
20°-30°	1588.8	15.3
30°-40°	1857.7	17.9
40°-50°	1852.2	17.8
50°-60°	1607.0	15.5
60°-70°	1187.0	11.4
70°-80°	664.6	6.4
80°-90°	177.3	1.7
90°-100°	0.5	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°	3033.7	29.2
0°-40°	4891.4	47.1
0°-60°	8350.6	80.4
0°-90°	10379.4	100.0
90°-120°	0.5	0.0
90°-150°	0.5	0.0
90°-180°	1.0	0.0
0°-180°	10380.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3974	3974	3974	3974	3974	
5°	3936	3961	3947	3965	3970	374
15°	3766	3792	3786	3804	3805	1062
25°	3429	3456	3448	3456	3443	1581
35°	2966	2992	2974	2974	2955	1853
45°	2397	2422	2404	2394	2379	1850
55°	1796	1809	1796	1793	1780	1606
65°	1187	1199	1199	1205	1202	1174
75°	593	611	632	636	642	632
85°	114	138	156	170	177	138
90°	0	2	3	7	6	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: HBLED-LD5-12SE-W-FLI-UNV-L740-ED1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3973.8	3973.8	3973.8	3973.8	3973.8
2.5°	3952.0	3975.5	3959.1	3974.8	3993.0
5°	3936.1	3960.9	3947.2	3964.7	3969.7
7.5°	3912.9	3936.9	3923.7	3941.2	3946.5
10°	3873.4	3899.5	3889.1	3908.8	3914.4
12.5°	3827.4	3852.0	3845.1	3868.1	3871.9
15°	3765.8	3792.1	3786.3	3804.4	3804.7
17.5°	3697.6	3722.3	3718.0	3732.2	3731.7
20°	3622.0	3648.5	3639.4	3654.8	3650.0
22.5°	3532.5	3560.8	3549.5	3562.4	3550.2
25°	3428.7	3456.2	3448.1	3455.7	3443.1
27.5°	3328.1	3353.4	3336.7	3345.8	3332.4
30°	3215.9	3237.4	3224.5	3227.5	3211.4
32.5°	3089.8	3115.3	3099.7	3099.2	3082.0
35°	2966.5	2992.5	2974.1	2973.6	2955.1
37.5°	2830.0	2854.3	2832.5	2833.8	2812.3
40°	2690.8	2711.8	2690.8	2689.8	2670.1
42.5°	2539.7	2567.5	2548.3	2550.5	2524.3
45°	2396.9	2422.4	2403.5	2393.6	2378.9
47.5°	2254.6	2265.7	2250.1	2247.5	2226.8
50°	2104.0	2112.3	2100.5	2097.4	2074.2
52.5°	1948.3	1962.7	1947.6	1943.5	1928.1
55°	1796.2	1808.6	1796.5	1793.4	1780.3
57.5°	1643.1	1659.2	1646.9	1643.8	1633.2
60°	1489.9	1494.7	1491.7	1496.3	1485.9
62.5°	1337.8	1348.9	1352.5	1351.2	1343.1
65°	1186.9	1198.6	1198.8	1204.9	1201.9
67.5°	1032.5	1047.7	1052.0	1058.3	1061.1
70°	887.2	898.9	911.5	915.3	912.5
72.5°	740.9	759.6	773.8	777.1	788.9
75°	593.3	611.0	631.8	636.3	641.6
77.5°	456.4	479.9	498.6	504.6	511.2
80°	326.5	352.5	371.2	379.6	392.2
82.5°	214.3	240.8	259.8	268.1	283.5
85°	113.7	137.5	156.4	170.3	176.9
87.5°	33.6	53.8	64.7	68.7	74.5
90°	0.0	2.5	3.0	6.8	6.3
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)