

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-LD5-24SE-W-CLWG-UNV-L835-ED2-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-CLWG-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20122.0 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

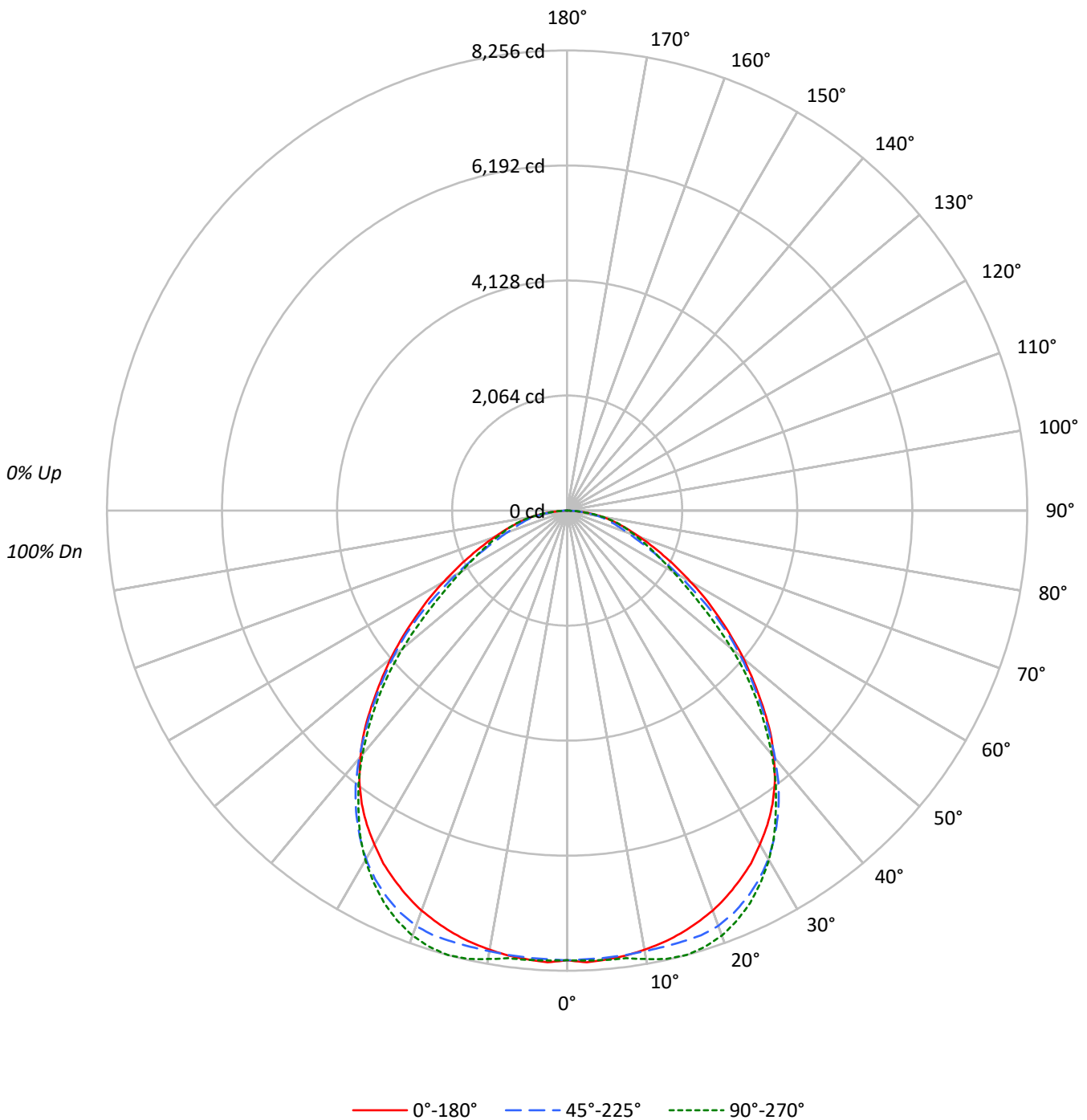
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10856	10856	10856
5°	10920	10875	10928
10°	10930	10966	11163
15°	10943	11149	11500
20°	10936	11353	11618
25°	10869	11363	11530
30°	10744	11213	11248
35°	10552	10849	10720
40°	10136	10198	10037
45°	9444	9345	9155
50°	8647	8507	8072
55°	7767	7479	6825
60°	6888	6188	5891
65°	6069	5141	5347
70°	5428	4462	5092
75°	5085	4338	5150
80°	4950	4386	4902
85°	3952	3470	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.6	3.8
10°-20°	2263.9	11.3
20°-30°	3482.8	17.3
30°-40°	4064.6	20.2
40°-50°	3777.1	18.8
50°-60°	2799.7	13.9
60°-70°	1711.5	8.5
70°-80°	974.9	4.8
80°-90°	278.8	1.4
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°	6515.3	32.4
0°-40°	10579.9	52.6
0°-60°	17156.8	85.3
0°-90°	20122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8068	8068	8068	8068	8068	
5°	8085	8048	8052	8045	8091	769
15°	7856	7852	8004	8162	8256	2218
25°	7321	7377	7654	7719	7767	3372
35°	6424	6474	6605	6551	6526	4003
45°	4963	4992	4911	4834	4812	3825
55°	3311	3228	3188	2961	2909	2971
65°	1906	1732	1615	1659	1679	1908
75°	978	918	834	951	991	1047
85°	256	250	225	233	233	295
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8068.3	8068.3	8068.3	8068.3	8068.3
2.5°	8112.0	8066.3	8057.9	8039.2	8080.8
5°	8085.0	8047.5	8051.7	8045.4	8091.2
7.5°	8053.8	8026.7	8043.4	8041.3	8101.6
10°	7999.7	7985.1	8026.7	8072.5	8170.3
12.5°	7939.3	7924.7	8016.3	8132.9	8239.0
15°	7856.1	7851.9	8003.8	8162.0	8255.6
17.5°	7752.0	7758.3	7989.3	8124.5	8207.8
20°	7637.6	7648.0	7928.9	8039.2	8114.1
22.5°	7489.8	7525.2	7812.4	7903.9	7962.2
25°	7321.2	7377.4	7654.2	7718.7	7766.6
27.5°	7140.2	7196.4	7458.6	7491.9	7518.9
30°	6915.4	6994.5	7217.2	7221.3	7240.1
32.5°	6686.5	6757.3	6927.9	6909.2	6913.3
35°	6424.3	6474.2	6605.3	6551.2	6526.3
37.5°	6122.5	6149.6	6232.8	6151.7	6147.5
40°	5770.8	5806.2	5806.2	5693.8	5714.6
42.5°	5396.2	5408.7	5356.7	5250.6	5267.2
45°	4963.4	4992.5	4911.3	4834.3	4811.5
47.5°	4534.7	4563.8	4478.5	4389.0	4349.5
50°	4130.9	4116.4	4064.3	3912.4	3856.2
52.5°	3712.6	3666.9	3646.0	3423.4	3358.9
55°	3311.0	3227.8	3188.2	2961.4	2909.3
57.5°	2938.5	2788.6	2713.7	2536.8	2516.0
60°	2559.7	2391.2	2299.6	2185.1	2189.3
62.5°	2216.3	2039.5	1929.2	1895.9	1910.4
65°	1906.3	1731.5	1614.9	1658.6	1679.4
67.5°	1625.3	1481.7	1350.6	1452.6	1473.4
70°	1379.8	1265.3	1134.2	1284.0	1294.4
72.5°	1175.8	1082.2	971.9	1113.4	1136.3
75°	978.1	917.8	834.5	951.1	990.6
77.5°	805.4	757.5	709.6	780.4	824.1
80°	638.9	591.0	566.1	603.5	632.6
82.5°	451.6	420.4	395.4	422.5	437.0
85°	256.0	249.7	224.8	233.1	233.1
87.5°	58.3	66.6	74.9	68.7	58.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)