

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-N-CLWG-UNV-L850-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-CLWG-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

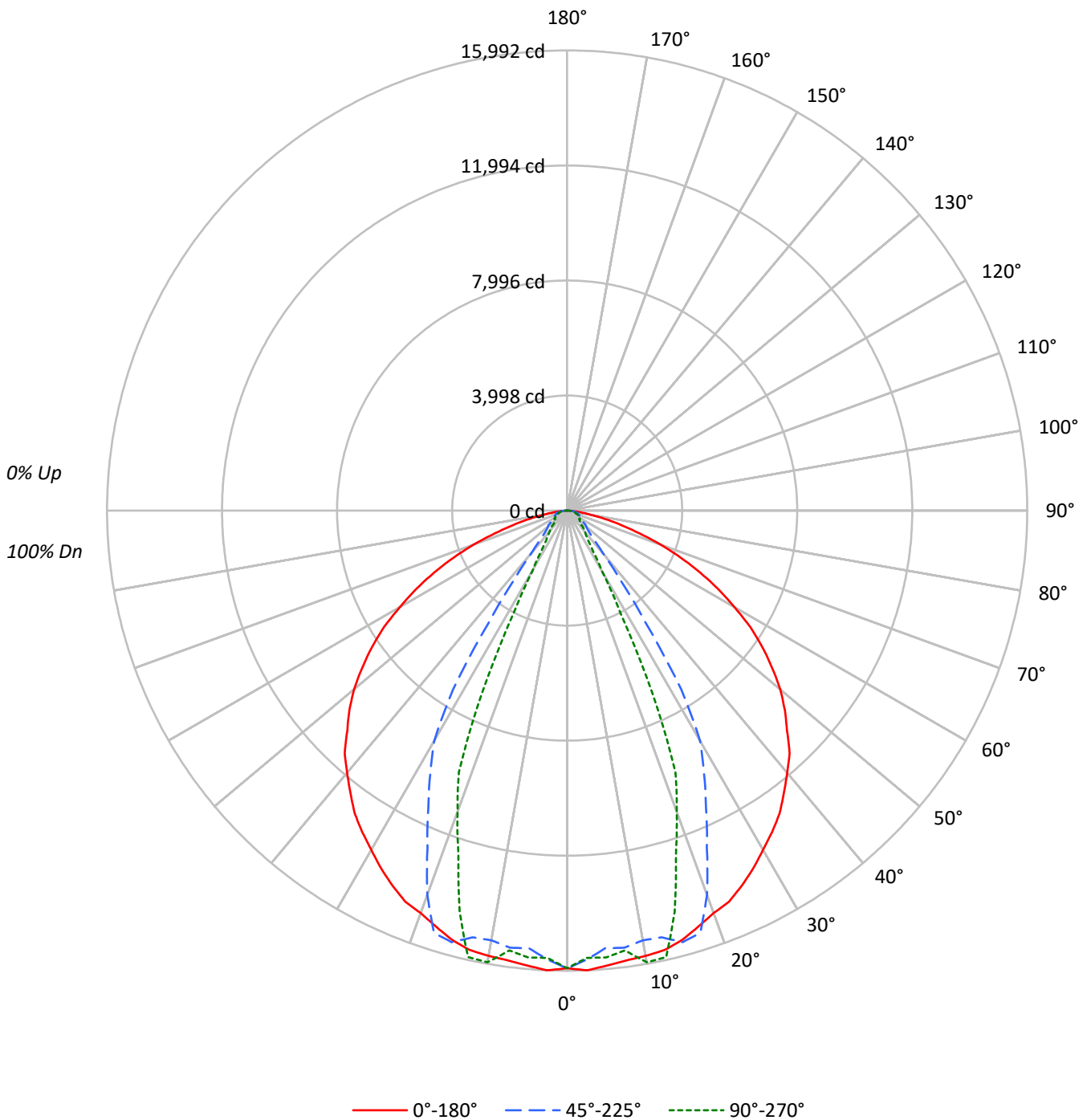
Lumens per Lamp: N/A
Luminaire Lumens: 21382.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21400	21400	21400
5°	21435	20619	21053
10°	21467	20718	21781
15°	21514	21626	20100
20°	21311	20341	15954
25°	21341	16957	10422
30°	21150	14365	3744
35°	21128	7782	2106
40°	20889	3393	1649
45°	20566	2097	1293
50°	20245	1826	1221
55°	19449	1584	1194
60°	18045	1419	1284
65°	16220	1604	1403
70°	13604	1725	1447
75°	10169	1967	1566
80°	6387	2284	1786
85°	4253	2862	2615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1474.2	6.9
10°-20°	4162.7	19.5
20°-30°	5097.4	23.8
30°-40°	4003.0	18.7
40°-50°	2968.5	13.9
50°-60°	1807.2	8.5
60°-70°	1082.5	5.1
70°-80°	593.9	2.8
80°-90°	192.6	0.9
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°	10734.3	50.2
0°-40°	14737.3	68.9
0°-60°	19512.9	91.3
0°-90°	21382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15905	15905	15905	15905	15905	
5°	15871	15439	15266	15434	15588	###
15°	15445	15022	15526	14898	14430	4349
25°	14375	14420	11422	8959	7020	6617
35°	12863	11701	4738	1585	1282	8026
45°	10808	7761	1102	835	680	8358
55°	8291	2138	675	571	509	7378
65°	5095	630	504	474	441	5034
75°	1956	398	378	329	301	2118
85°	276	216	185	170	169	336
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15905.0	15905.0	15905.0	15905.0	15905.0
2.5°	15991.8	15776.4	15611.3	15519.1	15556.6
5°	15870.7	15438.7	15266.1	15434.4	15587.7
7.5°	15765.7	15123.6	15318.7	15333.7	15414.1
10°	15712.1	15093.6	15164.3	15497.7	15942.5
12.5°	15641.3	15163.2	15187.9	15642.4	15893.2
15°	15445.2	15021.7	15525.5	14898.5	14430.1
17.5°	15159.0	14691.6	15384.1	13198.4	12561.7
20°	14883.5	14332.5	14206.0	11756.7	11142.5
22.5°	14705.5	14277.8	12690.3	10475.8	9841.2
25°	14375.4	14420.4	11422.3	8959.0	7019.9
27.5°	14012.0	14084.9	10301.1	5974.8	4021.8
30°	13613.3	13696.9	9246.3	3530.9	2409.7
32.5°	13252.0	12780.4	7384.4	2202.8	1675.4
35°	12862.9	11701.0	4737.8	1585.4	1282.0
37.5°	12373.1	10566.9	2999.2	1254.1	1076.2
40°	11892.8	9548.6	1931.6	1070.8	939.0
42.5°	11443.7	8709.3	1405.3	935.8	847.9
45°	10808.1	7760.6	1101.9	835.0	679.6
47.5°	10258.2	6648.0	963.6	706.4	586.3
50°	9671.8	5083.0	872.5	628.1	583.1
52.5°	8976.2	3325.1	806.1	601.3	544.5
55°	8291.2	2138.5	675.3	571.3	509.2
57.5°	7551.6	1356.0	596.0	554.2	531.7
60°	6705.9	914.3	527.4	525.2	477.0
62.5°	5923.4	751.4	509.2	503.8	451.3
65°	5094.8	630.3	503.8	473.8	440.6
67.5°	4267.3	540.2	455.6	433.1	404.1
70°	3458.0	494.2	438.4	428.8	367.7
72.5°	2626.2	407.3	389.1	363.4	305.5
75°	1956.2	397.7	378.4	329.1	301.2
77.5°	1323.8	366.6	344.1	294.8	272.3
80°	824.3	336.6	294.8	258.3	230.5
82.5°	489.9	280.8	242.3	213.3	195.1
85°	275.5	216.5	185.4	170.4	169.4
87.5°	59.0	78.2	62.2	59.0	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)