

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-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 (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-L850-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

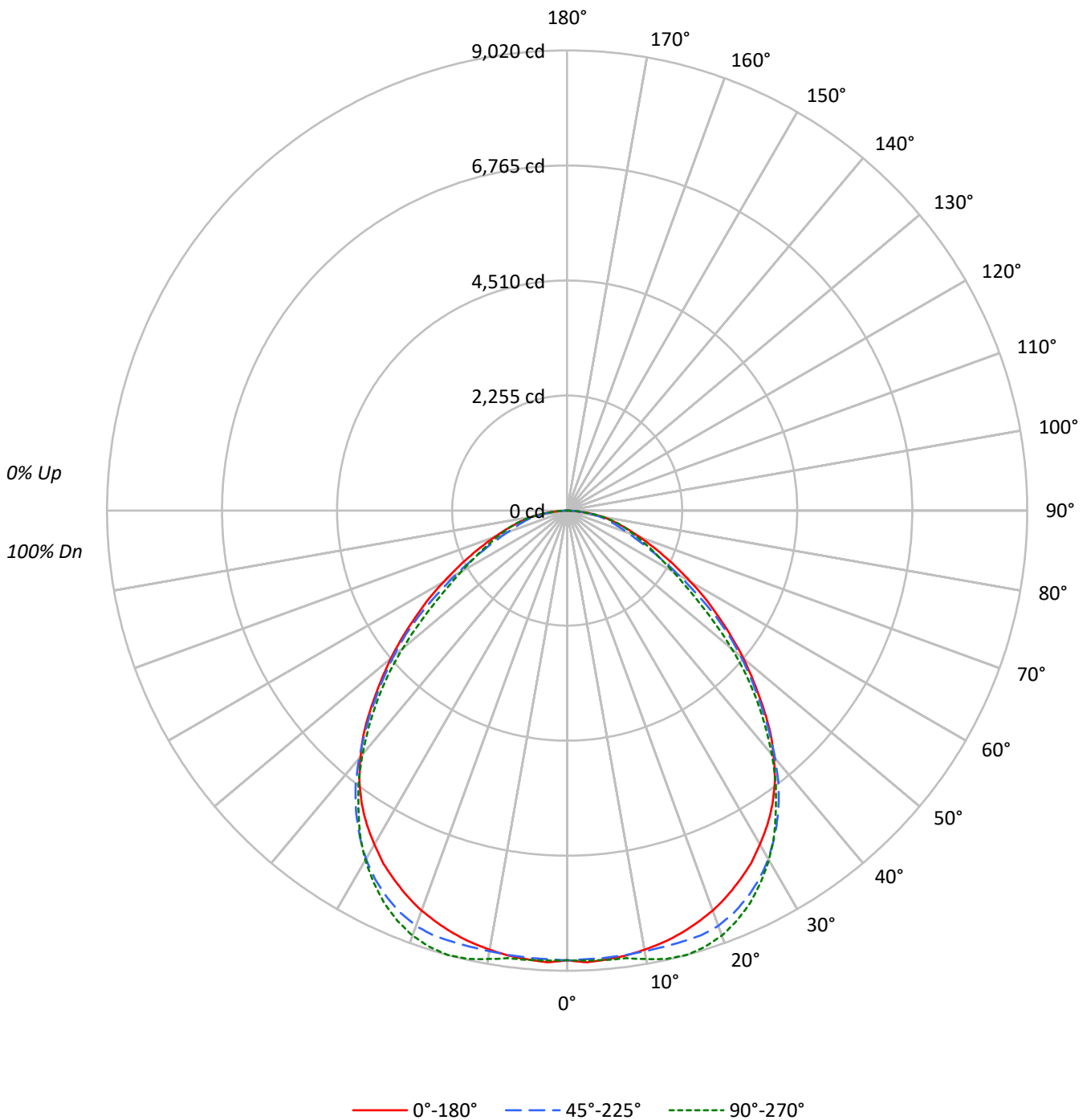
Lumens per Lamp: N/A
Luminaire Lumens: 21984.0 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): 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°	11860	11860	11860
5°	11930	11881	11940
10°	11941	11981	12196
15°	11956	12181	12564
20°	11948	12403	12693
25°	11875	12415	12597
30°	11738	12250	12289
35°	11529	11854	11712
40°	11074	11142	10966
45°	10318	10210	10002
50°	9447	9295	8819
55°	8486	8171	7456
60°	7526	6761	6437
65°	6631	5617	5841
70°	5930	4875	5563
75°	5555	4740	5626
80°	5408	4792	5356
85°	4318	3792	3930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.7	3.8
10°-20°	2473.4	11.3
20°-30°	3805.1	17.3
30°-40°	4440.7	20.2
40°-50°	4126.6	18.8
50°-60°	3058.8	13.9
60°-70°	1869.9	8.5
70°-80°	1065.1	4.8
80°-90°	304.6	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°	7118.2	32.4
0°-40°	11559.0	52.6
0°-60°	18744.4	85.3
0°-90°	21984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8815	8815	8815	8815	8815	
5°	8833	8792	8797	8790	8840	840
15°	8583	8578	8744	8917	9020	2423
25°	7999	8060	8362	8433	8485	3685
35°	7019	7073	7217	7158	7130	4373
45°	5423	5454	5366	5282	5257	4178
55°	3617	3526	3483	3235	3179	3246
65°	2083	1892	1764	1812	1835	2084
75°	1069	1003	912	1039	1082	1144
85°	280	273	246	255	255	322
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8815.0	8815.0	8815.0	8815.0	8815.0
2.5°	8862.7	8812.7	8803.6	8783.1	8828.6
5°	8833.1	8792.2	8796.8	8789.9	8840.0
7.5°	8799.0	8769.5	8787.7	8785.4	8851.3
10°	8739.9	8724.0	8769.5	8819.5	8926.4
12.5°	8674.0	8658.1	8758.1	8885.4	9001.4
15°	8583.0	8578.5	8744.5	8917.3	9019.6
17.5°	8469.4	8476.2	8728.6	8876.3	8967.3
20°	8344.3	8355.7	8662.6	8783.1	8865.0
22.5°	8182.9	8221.5	8535.3	8635.3	8699.0
25°	7998.7	8060.1	8362.5	8433.0	8485.3
27.5°	7800.9	7862.3	8148.8	8185.1	8214.7
30°	7555.3	7641.7	7885.0	7889.6	7910.0
32.5°	7305.2	7382.5	7569.0	7548.5	7553.1
35°	7018.8	7073.3	7216.6	7157.5	7130.2
37.5°	6689.1	6718.6	6809.6	6720.9	6716.4
40°	6304.8	6343.5	6343.5	6220.7	6243.4
42.5°	5895.6	5909.2	5852.4	5736.4	5754.6
45°	5422.7	5454.5	5365.8	5281.7	5256.7
47.5°	4954.3	4986.1	4892.9	4795.1	4751.9
50°	4513.2	4497.3	4440.4	4274.5	4213.1
52.5°	4056.2	4006.2	3983.4	3740.2	3669.7
55°	3617.4	3526.4	3483.2	3235.4	3178.6
57.5°	3210.4	3046.7	2964.8	2771.6	2748.8
60°	2796.6	2612.4	2512.4	2387.3	2391.9
62.5°	2421.4	2228.2	2107.7	2071.3	2087.2
65°	2082.7	1891.7	1764.4	1812.1	1834.8
67.5°	1775.7	1618.8	1475.6	1587.0	1609.7
70°	1507.4	1382.4	1239.1	1402.8	1414.2
72.5°	1284.6	1182.3	1061.8	1216.4	1241.4
75°	1068.6	1002.7	911.7	1039.1	1082.3
77.5°	879.9	827.6	775.3	852.6	900.4
80°	698.0	645.7	618.4	659.4	691.2
82.5°	493.4	459.3	432.0	461.6	477.5
85°	279.7	272.8	245.6	254.6	254.6
87.5°	63.7	72.8	81.9	75.0	63.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)