

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-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

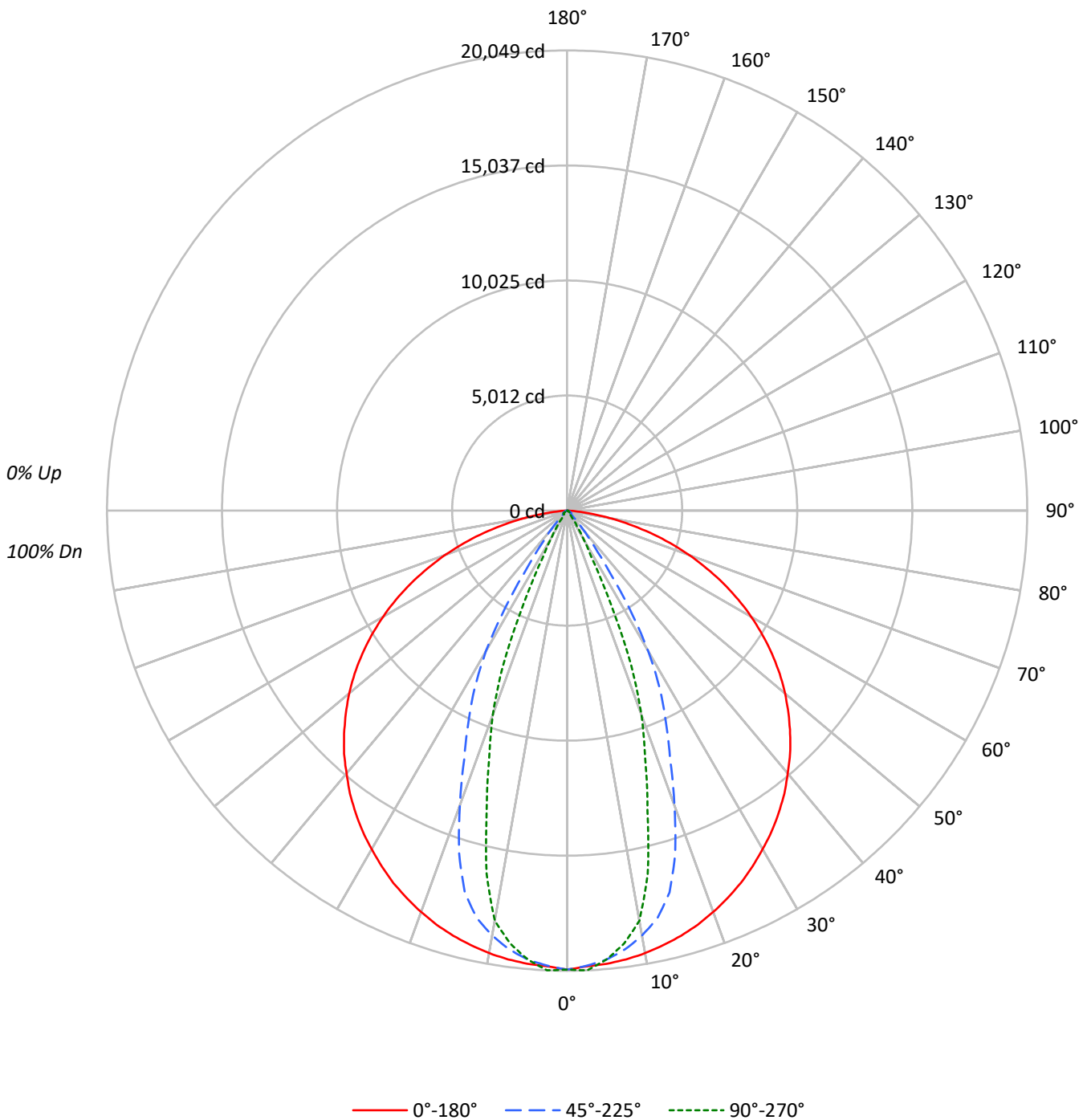
Lumens per Lamp: N/A
Luminaire Lumens: 21258.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26910	26910	26910
5°	26766	26530	26519
10°	26750	25680	24779
15°	26712	23991	18858
20°	26650	19558	13574
25°	26582	15122	6687
30°	26465	10991	2169
35°	26402	4876	558
40°	26264	1980	376
45°	26146	556	400
50°	25942	394	444
55°	25569	469	190
60°	24938	522	115
65°	23912	333	136
70°	22215	296	168
75°	19434	222	232
80°	14531	273	332
85°	7197	352	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1856.1	8.7
10°-20°	4641.1	21.8
20°-30°	5027.0	23.6
30°-40°	3722.7	17.5
40°-50°	2681.3	12.6
50°-60°	1660.2	7.8
60°-70°	1021.1	4.8
70°-80°	538.2	2.5
80°-90°	110.2	0.5
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°	11524.2	54.2
0°-40°	15247.0	71.7
0°-60°	19588.5	92.1
0°-90°	21258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20000	20000	20000	20000	20000	
5°	19818	19891	19643	19657	19634	###
15°	19176	18731	17223	14647	13538	5413
25°	17905	16401	10186	6408	4504	8250
35°	16074	11332	2968	698	340	10056
45°	13741	6384	292	211	210	10597
55°	10900	1315	200	181	81	9730
65°	7511	139	105	67	43	7411
75°	3738	32	43	56	45	3948
85°	466	12	23	34	28	704
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20000.5	20000.5	20000.5	20000.5	20000.5
2.5°	19872.0	19998.6	19849.2	19960.5	20049.0
5°	19817.8	19891.1	19642.7	19657.0	19634.2
7.5°	19722.7	19705.5	19287.9	19105.2	19025.3
10°	19579.0	19465.8	18796.0	18414.4	18136.6
12.5°	19393.5	19140.4	18182.3	16969.2	16215.6
15°	19176.5	18731.3	17223.2	14646.7	13538.2
17.5°	18917.7	18286.9	15655.2	12275.6	11286.1
20°	18612.3	17791.2	13659.1	10444.1	9480.3
22.5°	18271.7	17188.0	11720.0	8680.1	7305.3
25°	17905.4	16401.1	10186.3	6408.0	4504.2
27.5°	17482.0	15389.8	8747.7	3774.4	2298.7
30°	17033.9	14171.9	7074.1	2030.4	1395.8
32.5°	16581.9	12791.3	5005.6	1268.3	791.6
35°	16073.8	11331.8	2968.5	698.4	339.7
37.5°	15543.9	9994.1	1754.5	317.8	217.9
40°	14953.0	8771.4	1127.5	211.2	214.1
42.5°	14382.2	7631.6	634.6	208.4	212.2
45°	13740.9	6384.2	292.1	211.2	210.3
47.5°	13077.7	5091.2	189.3	213.1	213.1
50°	12393.6	3640.3	188.4	217.9	212.2
52.5°	11671.5	2271.1	196.0	216.9	174.1
55°	10899.8	1314.9	199.8	180.8	80.9
57.5°	10100.6	775.4	201.7	103.7	45.7
60°	9267.2	429.1	194.1	77.1	42.8
62.5°	8408.0	204.6	153.2	72.3	41.9
65°	7510.8	138.9	104.7	66.6	42.8
67.5°	6579.3	107.5	82.8	62.8	43.8
70°	5646.9	79.9	75.2	62.8	42.8
72.5°	4699.2	54.2	62.8	63.7	42.8
75°	3738.3	32.3	42.8	56.1	44.7
77.5°	2785.9	20.0	33.3	58.0	54.2
80°	1875.3	17.1	35.2	54.2	42.8
82.5°	1100.8	15.2	34.3	41.9	34.3
85°	466.2	12.4	22.8	34.3	28.5
87.5°	87.5	10.5	18.1	27.6	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)