

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-L840-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-L840-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

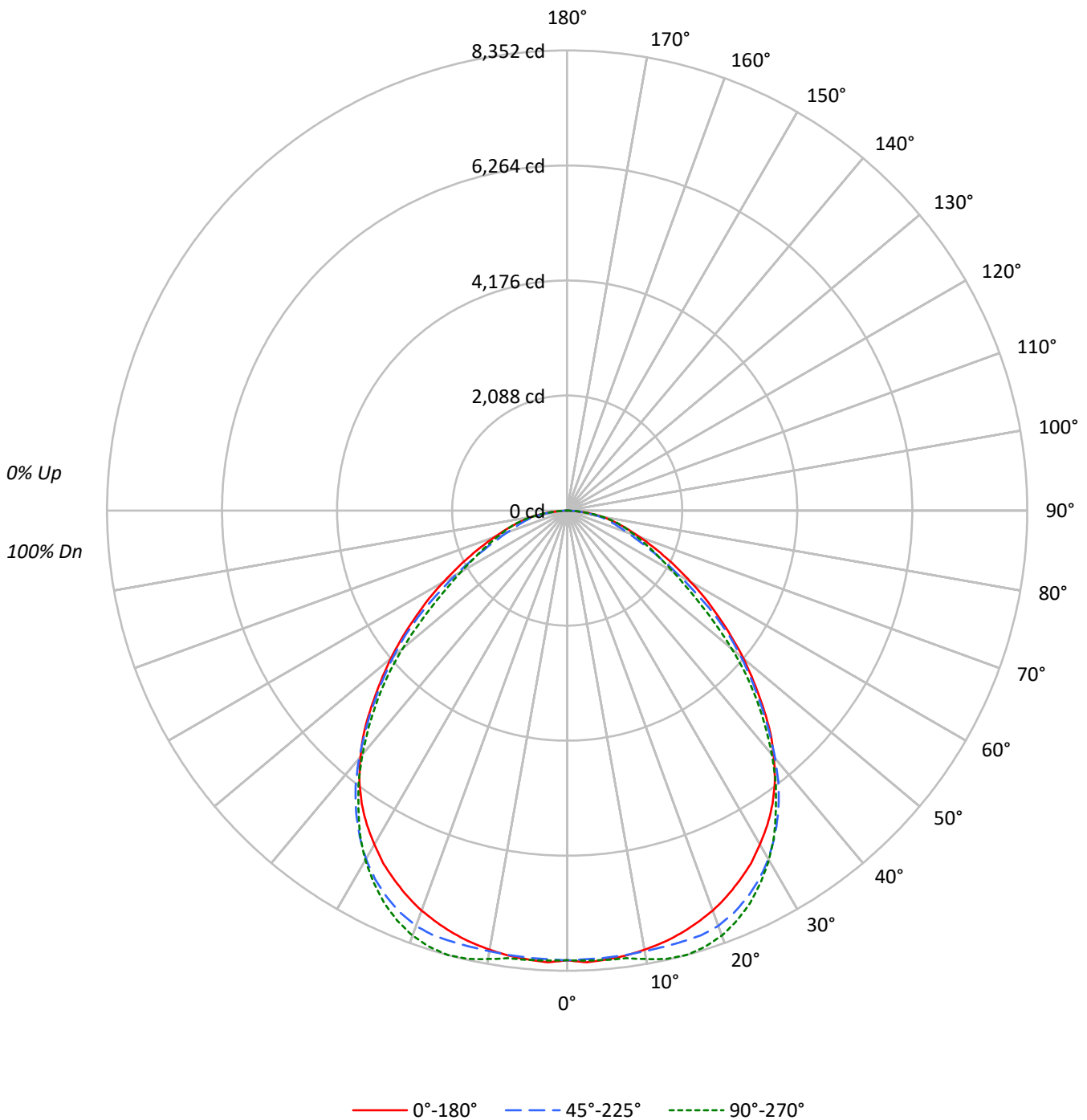
Lumens per Lamp: N/A
Luminaire Lumens: 20356.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	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°	10982	10982	10982
5°	11047	11001	11055
10°	11057	11094	11292
15°	11070	11279	11633
20°	11063	11485	11753
25°	10995	11495	11664
30°	10869	11343	11379
35°	10675	10976	10844
40°	10254	10317	10154
45°	9554	9454	9262
50°	8748	8606	8166
55°	7857	7566	6904
60°	6968	6260	5960
65°	6139	5201	5409
70°	5491	4514	5152
75°	5144	4389	5209
80°	5008	4437	4959
85°	3997	3511	3640



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.5	3.8
10°-20°	2290.3	11.3
20°-30°	3523.3	17.3
30°-40°	4111.9	20.2
40°-50°	3821.0	18.8
50°-60°	2832.3	13.9
60°-70°	1731.4	8.5
70°-80°	986.2	4.8
80°-90°	282.1	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°	6591.1	32.4
0°-40°	10703.0	52.6
0°-60°	17356.3	85.3
0°-90°	20356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8162	8162	8162	8162	8162	
5°	8179	8141	8145	8139	8185	778
15°	7947	7943	8097	8257	8352	2243
25°	7406	7463	7743	7808	7857	3412
35°	6499	6550	6682	6627	6602	4049
45°	5021	5051	4968	4891	4867	3869
55°	3350	3265	3225	2996	2943	3006
65°	1928	1752	1634	1678	1699	1930
75°	990	928	844	962	1002	1059
85°	259	253	227	236	236	298
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8162.2	8162.2	8162.2	8162.2	8162.2
2.5°	8206.4	8160.1	8151.6	8132.7	8174.8
5°	8179.0	8141.1	8145.3	8139.0	8185.3
7.5°	8147.4	8120.1	8136.9	8134.8	8195.9
10°	8092.7	8078.0	8120.1	8166.4	8265.3
12.5°	8031.6	8016.9	8109.5	8227.4	8334.8
15°	7947.4	7943.2	8096.9	8256.9	8351.6
17.5°	7842.2	7848.5	8082.2	8219.0	8303.2
20°	7726.4	7736.9	8021.1	8132.7	8208.5
22.5°	7576.9	7612.7	7903.2	7995.9	8054.8
25°	7406.4	7463.2	7743.2	7808.5	7856.9
27.5°	7223.2	7280.1	7545.3	7579.0	7606.4
30°	6995.8	7075.8	7301.1	7305.3	7324.3
32.5°	6764.3	6835.8	7008.5	6989.5	6993.7
35°	6499.0	6549.5	6682.2	6627.4	6602.2
37.5°	6193.7	6221.1	6305.3	6223.2	6219.0
40°	5837.9	5873.7	5873.7	5760.0	5781.1
42.5°	5459.0	5471.6	5419.0	5311.6	5328.5
45°	5021.1	5050.6	4968.5	4890.6	4867.4
47.5°	4587.4	4616.9	4530.6	4440.0	4400.0
50°	4179.0	4164.2	4111.6	3957.9	3901.1
52.5°	3755.8	3709.5	3688.4	3463.2	3397.9
55°	3349.5	3265.3	3225.3	2995.8	2943.2
57.5°	2972.7	2821.1	2745.3	2566.3	2545.3
60°	2589.5	2419.0	2326.3	2210.5	2214.8
62.5°	2242.1	2063.2	1951.6	1917.9	1932.6
65°	1928.4	1751.6	1633.7	1677.9	1699.0
67.5°	1644.2	1499.0	1366.3	1469.5	1490.5
70°	1395.8	1280.0	1147.4	1299.0	1309.5
72.5°	1189.5	1094.7	983.2	1126.3	1149.5
75°	989.5	928.4	844.2	962.1	1002.1
77.5°	814.7	766.3	717.9	789.5	833.7
80°	646.3	597.9	572.6	610.5	640.0
82.5°	456.8	425.3	400.0	427.4	442.1
85°	258.9	252.6	227.4	235.8	235.8
87.5°	58.9	67.4	75.8	69.5	58.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)