

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-CLI-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 (P23769)
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-CLI-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

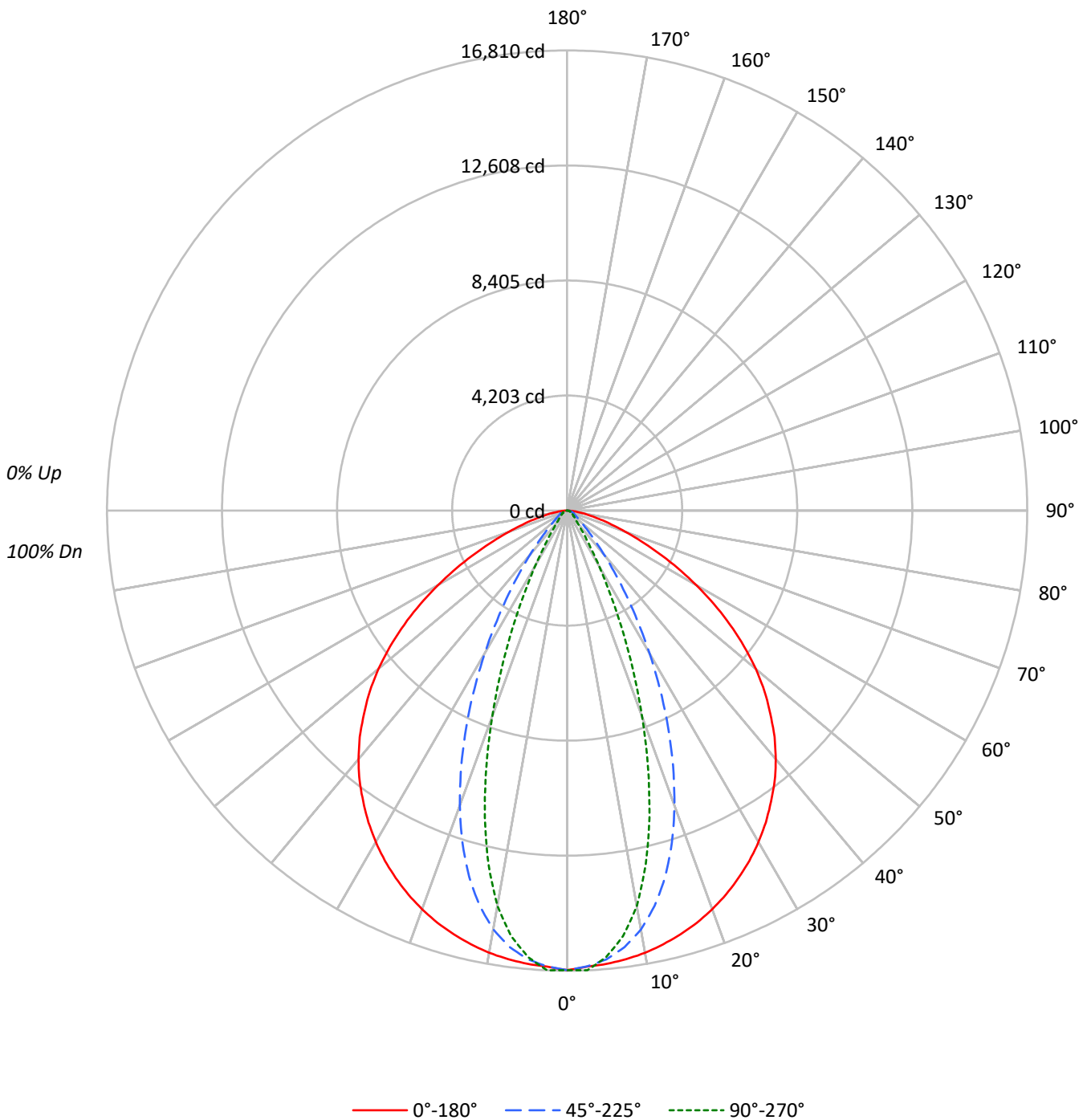
Lumens per Lamp: N/A
Luminaire Lumens: 18378.0 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22587	22587	22587
5°	22451	22228	22110
10°	22413	21221	20025
15°	22323	19290	16172
20°	22189	16414	11462
25°	21991	12943	6925
30°	21724	9341	3559
35°	21331	6107	1778
40°	20825	3668	1037
45°	19960	2191	776
50°	18826	1433	651
55°	17039	1087	568
60°	14642	925	519
65°	11778	845	490
70°	8873	904	487
75°	6527	859	501
80°	4775	856	548
85°	3577	1037	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1546.0	8.4
10°-20°	3846.1	20.9
20°-30°	4260.1	23.2
30°-40°	3413.1	18.6
40°-50°	2436.5	13.3
50°-60°	1565.0	8.5
60°-70°	848.1	4.6
70°-80°	362.5	2.0
80°-90°	100.5	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°	9652.2	52.5
0°-40°	13065.3	71.1
0°-60°	17066.8	92.9
0°-90°	18378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16787	16787	16787	16787	16787	
5°	16622	16684	16457	16405	16370	###
15°	16026	15524	13848	12238	11610	4522
25°	14813	13061	8718	5680	4665	6824
35°	12987	9394	3718	1500	1082	8120
45°	10490	5423	1151	490	408	8085
55°	7264	2424	463	285	242	6473
65°	3699	996	265	183	154	3705
75°	1256	364	165	115	96	1395
85°	232	96	67	56	46	283
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16787.0	16787.0	16787.0	16787.0	16787.0
2.5°	16676.5	16780.8	16668.5	16738.3	16810.0
5°	16622.5	16684.4	16457.2	16405.0	16370.5
7.5°	16528.8	16511.1	16084.1	15807.3	15673.8
10°	16405.0	16261.8	15532.3	14924.0	14657.0
12.5°	16228.2	15932.9	14785.2	13717.1	13264.4
15°	16025.7	15524.4	13848.0	12237.9	11610.1
17.5°	15783.4	15046.9	12727.7	10651.7	9823.2
20°	15497.0	14470.4	11463.3	8966.4	8005.3
22.5°	15176.9	13805.5	10109.7	7286.5	6255.5
25°	14812.6	13061.1	8718.0	5679.9	4664.9
27.5°	14419.2	12234.4	7334.2	4244.0	3318.3
30°	13982.4	11339.6	6012.4	3060.1	2290.9
32.5°	13505.8	10388.2	4784.3	2152.1	1566.8
35°	12986.8	9393.5	3718.0	1499.6	1082.2
37.5°	12455.4	8378.5	2808.1	1060.1	776.3
40°	11856.8	7367.0	2088.4	776.3	590.6
42.5°	11214.0	6374.9	1545.5	597.7	478.3
45°	10489.9	5422.7	1151.2	489.8	407.6
47.5°	9787.8	4534.9	874.5	417.3	354.6
50°	8993.8	3733.9	684.4	364.3	311.2
52.5°	8151.2	3029.2	555.3	321.0	274.1
55°	7263.5	2424.4	463.3	284.7	242.3
57.5°	6364.3	1920.4	396.1	253.8	215.7
60°	5441.2	1535.8	343.9	227.2	192.8
62.5°	4540.2	1228.1	300.6	204.2	172.4
65°	3699.4	995.6	265.3	183.0	153.8
67.5°	2922.2	786.9	247.6	164.5	138.8
70°	2255.5	612.7	229.9	146.8	123.8
72.5°	1709.1	470.4	203.4	130.9	109.6
75°	1255.5	364.3	165.3	114.9	96.4
77.5°	898.3	280.3	134.4	99.9	83.1
80°	616.3	208.7	110.5	85.8	70.7
82.5°	400.5	147.7	89.3	70.7	58.4
85°	231.7	96.4	67.2	55.7	46.0
87.5°	99.9	53.1	46.0	41.6	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)