

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-CL-UNV-L740-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 (P23768)
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-CL-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

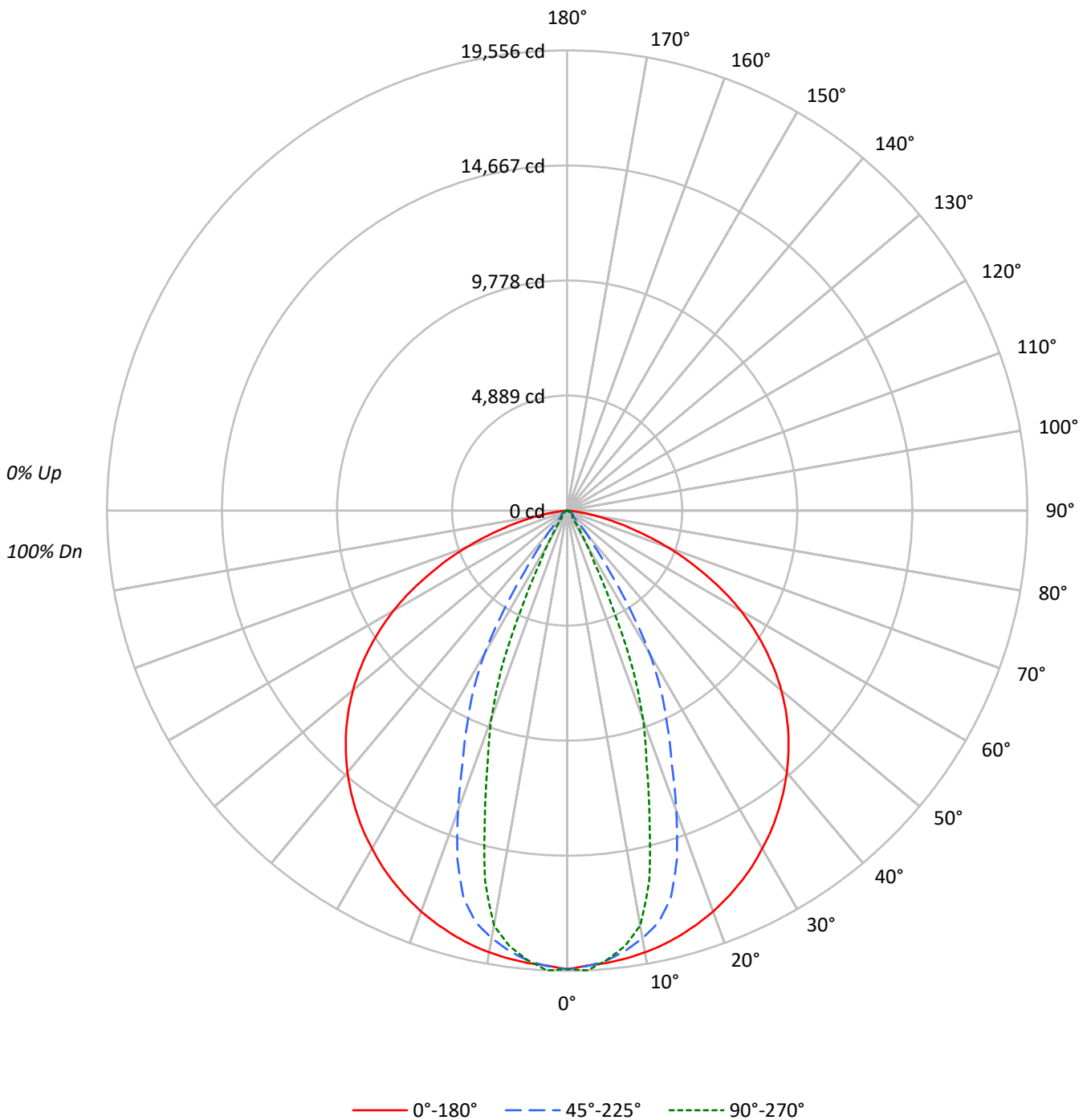
Lumens per Lamp: N/A
Luminaire Lumens: 20845.0 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83					81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75					73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68					66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62					60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57					55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53					51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49					47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46					44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43					41				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26224	26224	26224
5°	26063	25927	25908
10°	26046	25211	24466
15°	26016	23707	18812
20°	25965	19400	13494
25°	25884	14948	6857
30°	25761	10909	2495
35°	25669	5010	868
40°	25511	2274	599
45°	25285	848	607
50°	24881	616	639
55°	24145	648	487
60°	22945	692	429
65°	20808	527	349
70°	17840	380	322
75°	13636	337	306
80°	8532	317	332
85°	2694	369	446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1814.6	8.7
10°-20°	4571.0	21.9
20°-30°	4978.1	23.9
30°-40°	3723.9	17.9
40°-50°	2677.5	12.8
50°-60°	1644.4	7.9
60°-70°	946.2	4.5
70°-80°	422.3	2.0
80°-90°	67.0	0.3
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°	11363.7	54.5
0°-40°	15087.5	72.4
0°-60°	19409.5	93.1
0°-90°	20845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19491	19491	19491	19491	19491	
5°	19297	19388	19196	19214	19182	###
15°	18677	18319	17019	14616	13505	5272
25°	17435	16184	10068	6460	4619	8037
35°	15628	11208	3050	897	529	9776
45°	13288	6297	446	330	319	10237
55°	10293	1309	276	267	208	9177
65°	6536	144	166	138	110	6470
75°	2623	87	65	67	59	2846
85°	174	17	24	31	29	348
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19490.6	19490.6	19490.6	19490.6	19490.6
2.5°	19355.0	19481.7	19374.9	19470.7	19555.5
5°	19297.1	19387.9	19196.4	19214.4	19182.4
7.5°	19197.4	19219.3	18873.3	18739.6	18674.8
10°	19063.8	19004.9	18452.4	18134.2	17907.8
12.5°	18895.2	18700.7	17928.7	16792.7	16115.5
15°	18676.8	18318.7	17019.1	14616.5	13505.4
17.5°	18416.5	17919.8	15513.1	12181.9	11220.4
20°	18134.2	17478.9	13549.3	10357.7	9424.2
22.5°	17801.1	16915.4	11612.4	8614.3	7332.7
25°	17435.0	16184.3	10068.5	6460.0	4618.8
27.5°	17040.1	15219.9	8639.2	3961.6	2497.4
30°	16581.3	14046.0	7021.5	2223.1	1605.8
32.5°	16133.5	12677.6	5015.8	1481.1	1026.3
35°	15627.8	11208.5	3050.0	896.6	528.6
37.5°	15092.2	9873.0	1909.0	487.7	365.0
40°	14524.7	8606.3	1294.6	346.1	341.1
42.5°	13918.3	7460.3	810.9	329.1	340.1
45°	13288.0	6297.4	445.8	330.1	319.2
47.5°	12603.8	5034.7	311.2	312.2	311.2
50°	11886.7	3611.5	294.2	308.2	305.2
52.5°	11113.7	2242.1	295.2	301.2	270.3
55°	10292.9	1308.6	276.3	267.3	207.5
57.5°	9430.1	815.8	270.3	220.4	186.5
60°	8526.5	430.9	257.3	198.5	159.6
62.5°	7564.1	212.4	206.5	169.6	130.7
65°	6535.8	143.6	165.6	137.6	109.7
67.5°	5542.4	129.7	124.7	112.7	95.7
70°	4535.0	118.7	96.7	98.7	81.8
72.5°	3546.7	107.7	77.8	84.8	68.8
75°	2623.1	86.8	64.8	66.8	58.8
77.5°	1825.2	67.8	50.9	56.9	54.9
80°	1101.1	42.9	40.9	46.9	42.9
82.5°	533.6	27.9	31.9	36.9	33.9
85°	174.5	17.0	23.9	30.9	28.9
87.5°	21.9	10.0	19.9	26.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)