

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-LD5-24HE-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-LD5-24HE-N-CL-UNV-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

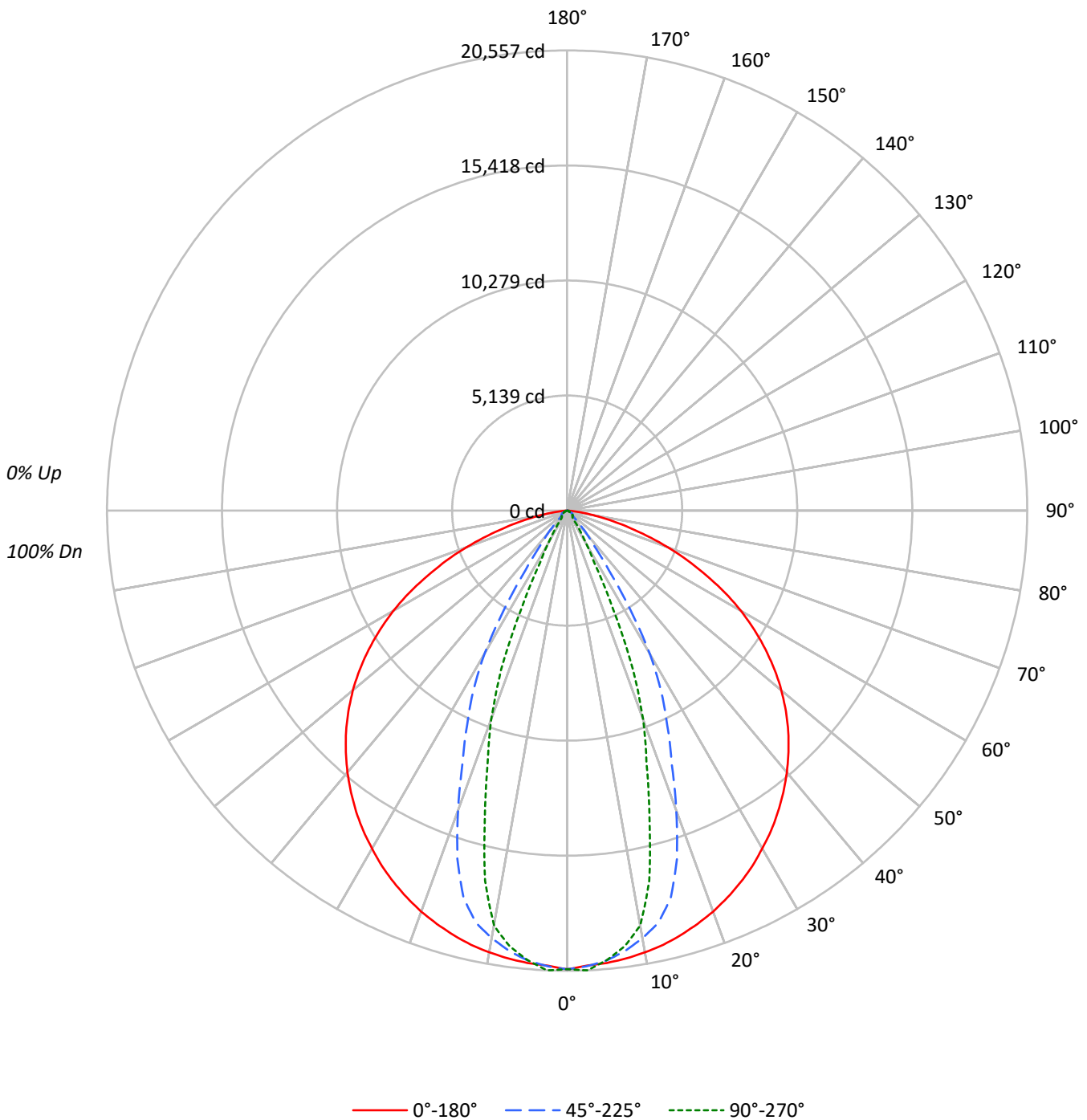
Lumens per Lamp: N/A
Luminaire Lumens: 21913.0 lumens
Efficiency: N/A
Efficacy: 149.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 146.3
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	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				90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47				47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27568	27568	27568
5°	27399	27256	27236
10°	27380	26502	25720
15°	27349	24921	19776
20°	27296	20394	14185
25°	27210	15713	7208
30°	27081	11468	2623
35°	26984	5266	913
40°	26818	2390	630
45°	26580	892	638
50°	26156	647	672
55°	25382	681	512
60°	24120	728	452
65°	21874	554	367
70°	18755	400	338
75°	14335	355	322
80°	8969	333	349
85°	2833	389	469



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1907.5	8.7
10°-20°	4805.2	21.9
20°-30°	5233.1	23.9
30°-40°	3914.6	17.9
40°-50°	2814.7	12.8
50°-60°	1728.7	7.9
60°-70°	994.7	4.5
70°-80°	444.0	2.0
80°-90°	70.4	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°	11945.9	54.5
0°-40°	15860.5	72.4
0°-60°	20403.9	93.1
0°-90°	21913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20489	20489	20489	20489	20489	
5°	20286	20381	20180	20199	20165	###
15°	19634	19257	17891	15365	14197	5542
25°	18328	17014	10584	6791	4856	8449
35°	16428	11783	3206	943	556	10276
45°	13969	6620	469	347	336	10761
55°	10820	1376	290	281	218	9647
65°	6871	151	174	145	115	6801
75°	2758	91	68	70	62	2992
85°	184	18	25	32	30	366
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20489.2	20489.2	20489.2	20489.2	20489.2
2.5°	20346.6	20479.8	20367.6	20468.3	20557.4
5°	20285.8	20381.2	20179.9	20198.8	20165.3
7.5°	20181.0	20204.1	19840.2	19699.7	19631.6
10°	20040.5	19978.6	19397.8	19063.3	18825.3
12.5°	19863.3	19658.8	18847.3	17653.1	16941.2
15°	19633.7	19257.3	17891.1	15365.4	14197.4
17.5°	19360.0	18837.9	16307.9	12806.0	11795.3
20°	19063.3	18374.5	14243.5	10888.4	9907.0
22.5°	18713.1	17782.1	12207.4	9055.7	7708.4
25°	18328.3	17013.6	10584.3	6791.0	4855.5
27.5°	17913.1	15999.7	9081.9	4164.5	2625.4
30°	17430.8	14765.6	7381.2	2337.0	1688.0
32.5°	16960.1	13327.1	5272.8	1557.0	1078.9
35°	16428.5	11782.7	3206.2	942.6	555.7
37.5°	15865.5	10378.8	2006.8	512.7	383.7
40°	15268.9	9047.3	1360.9	363.8	358.6
42.5°	14631.4	7842.6	852.4	346.0	357.5
45°	13968.8	6620.1	468.7	347.0	335.5
47.5°	13249.5	5292.7	327.1	328.2	327.1
50°	12495.7	3796.5	309.3	324.0	320.8
52.5°	11683.1	2357.0	310.3	316.6	284.1
55°	10820.2	1375.6	290.4	281.0	218.1
57.5°	9913.3	857.6	284.1	231.7	196.1
60°	8963.4	452.9	270.5	208.6	167.8
62.5°	7951.6	223.3	217.0	178.2	137.3
65°	6870.6	151.0	174.0	144.7	115.3
67.5°	5826.4	136.3	131.1	118.5	100.7
70°	4767.4	124.8	101.7	103.8	86.0
72.5°	3728.4	113.2	81.8	89.1	72.3
75°	2757.5	91.2	68.2	70.2	61.9
77.5°	1918.7	71.3	53.5	59.8	57.7
80°	1157.5	45.1	43.0	49.3	45.1
82.5°	560.9	29.4	33.6	38.8	35.6
85°	183.5	17.8	25.2	32.5	30.4
87.5°	23.1	10.5	21.0	28.3	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)