

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-W-CLI-UNV-L735-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CLI-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

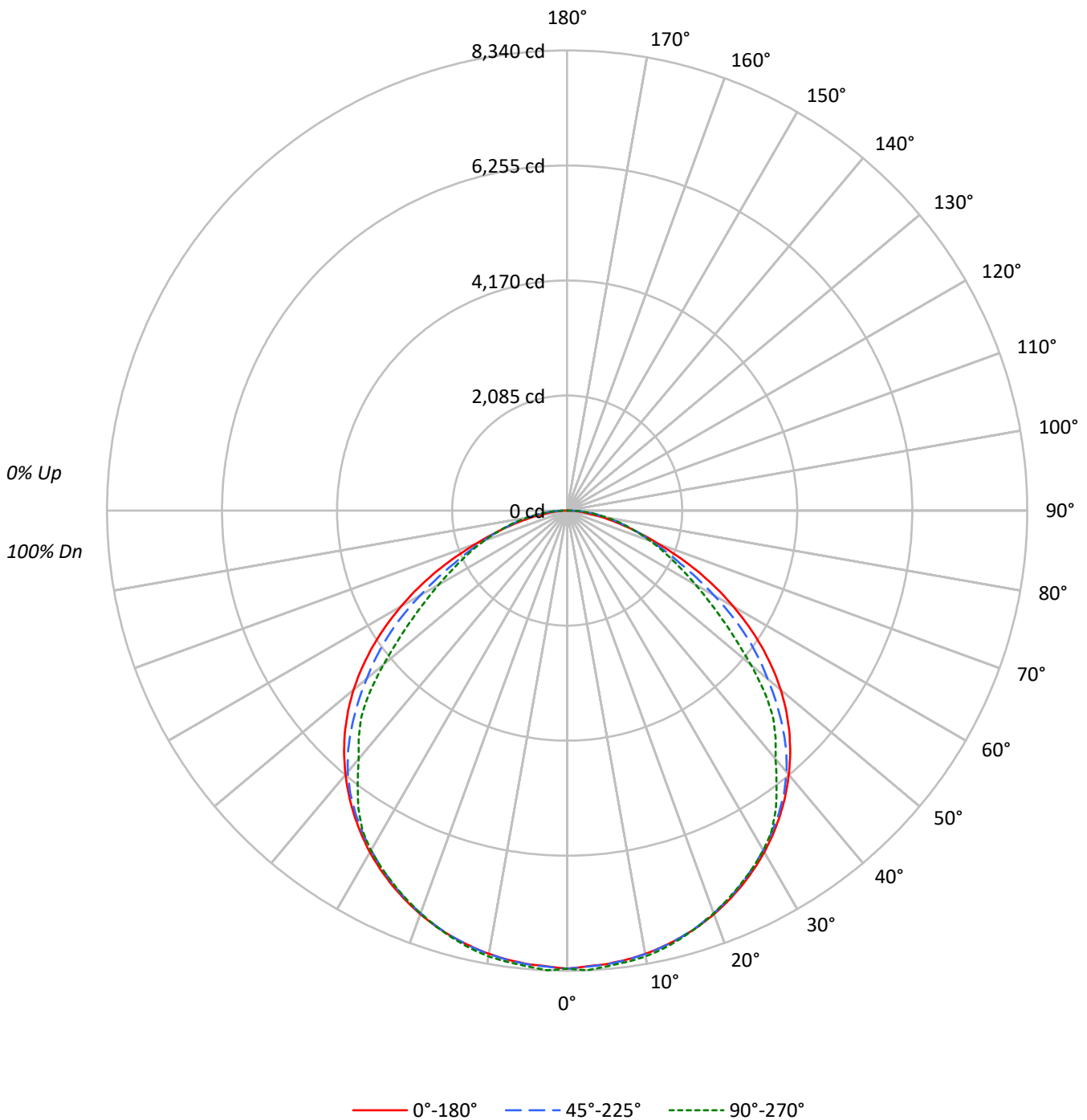
Lumens per Lamp: N/A
Luminaire Lumens: 22305.0 lumens
Efficiency: N/A
Efficacy: 152.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11170	11170	11170
5°	11140	11148	11198
10°	11147	11152	11211
15°	11148	11147	11173
20°	11145	11120	11122
25°	11128	11087	11073
30°	11110	11043	11050
35°	11058	10989	10834
40°	10979	10867	10319
45°	10840	10493	10034
50°	10579	9934	9087
55°	10097	9291	8036
60°	9371	8290	7247
65°	8329	7177	6663
70°	6912	6414	6281
75°	5591	5870	5943
80°	4441	5614	5591
85°	3477	6032	5754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.3	3.5
10°-20°	2264.7	10.2
20°-30°	3453.2	15.5
30°-40°	4177.9	18.7
40°-50°	4231.8	19.0
50°-60°	3497.7	15.7
60°-70°	2310.2	10.4
70°-80°	1204.6	5.4
80°-90°	377.6	1.7
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°	6505.2	29.2
0°-40°	10683.1	47.9
0°-60°	18412.6	82.5
0°-90°	22305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8302	8302	8302	8302	8302	
5°	8248	8298	8254	8290	8291	785
15°	8003	8044	8002	8027	8021	2260
25°	7496	7526	7468	7487	7459	3456
35°	6732	6741	6690	6682	6596	4211
45°	5697	5682	5514	5343	5273	4387
55°	4304	4241	3961	3576	3426	3837
65°	2616	2540	2254	2108	2093	2584
75°	1075	1094	1129	1144	1143	1172
85°	225	290	391	388	373	273
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8302.0	8302.0	8302.0	8302.0	8302.0
2.5°	8267.2	8316.0	8275.1	8311.0	8339.9
5°	8248.2	8298.1	8254.2	8290.1	8291.1
7.5°	8211.4	8261.2	8216.3	8252.2	8251.2
10°	8158.5	8205.4	8162.5	8205.4	8205.4
12.5°	8086.8	8132.6	8090.8	8130.6	8124.6
15°	8003.1	8043.9	8002.1	8027.0	8021.0
17.5°	7904.4	7941.3	7894.4	7915.3	7903.4
20°	7783.8	7817.7	7765.9	7792.8	7767.8
22.5°	7648.2	7680.1	7627.3	7647.3	7619.3
25°	7495.8	7525.7	7467.9	7486.8	7458.9
27.5°	7331.3	7358.2	7293.4	7316.4	7294.4
30°	7150.9	7163.9	7108.1	7138.0	7112.1
32.5°	6949.6	6957.6	6908.7	6935.6	6891.8
35°	6732.3	6741.3	6690.5	6681.5	6595.8
37.5°	6500.1	6504.1	6456.3	6375.5	6234.0
40°	6251.0	6249.0	6187.2	6000.8	5875.2
42.5°	5984.8	5983.9	5875.2	5662.9	5591.2
45°	5696.8	5681.9	5514.4	5343.0	5273.2
47.5°	5387.9	5371.9	5137.7	5001.2	4842.7
50°	5054.0	5026.1	4746.0	4559.6	4341.4
52.5°	4694.2	4651.3	4366.3	4065.3	3859.0
55°	4304.5	4240.7	3960.7	3576.0	3425.5
57.5°	3898.9	3804.2	3532.1	3157.4	3034.8
60°	3482.3	3376.6	3080.6	2772.7	2692.9
62.5°	3053.7	2949.1	2647.1	2414.9	2371.0
65°	2616.2	2540.4	2254.4	2107.9	2093.0
67.5°	2167.7	2140.8	1922.5	1847.8	1841.8
70°	1757.1	1752.1	1630.5	1592.6	1596.6
72.5°	1404.3	1398.3	1380.4	1361.4	1362.4
75°	1075.4	1094.3	1129.2	1144.1	1143.2
77.5°	802.3	841.2	914.9	944.8	939.8
80°	573.1	630.9	724.6	752.5	721.6
82.5°	381.7	442.5	553.1	557.1	532.2
85°	225.2	290.0	390.7	387.7	372.7
87.5°	111.6	174.4	234.2	224.2	214.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)