

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-UNV-L750-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 (P23767)
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-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

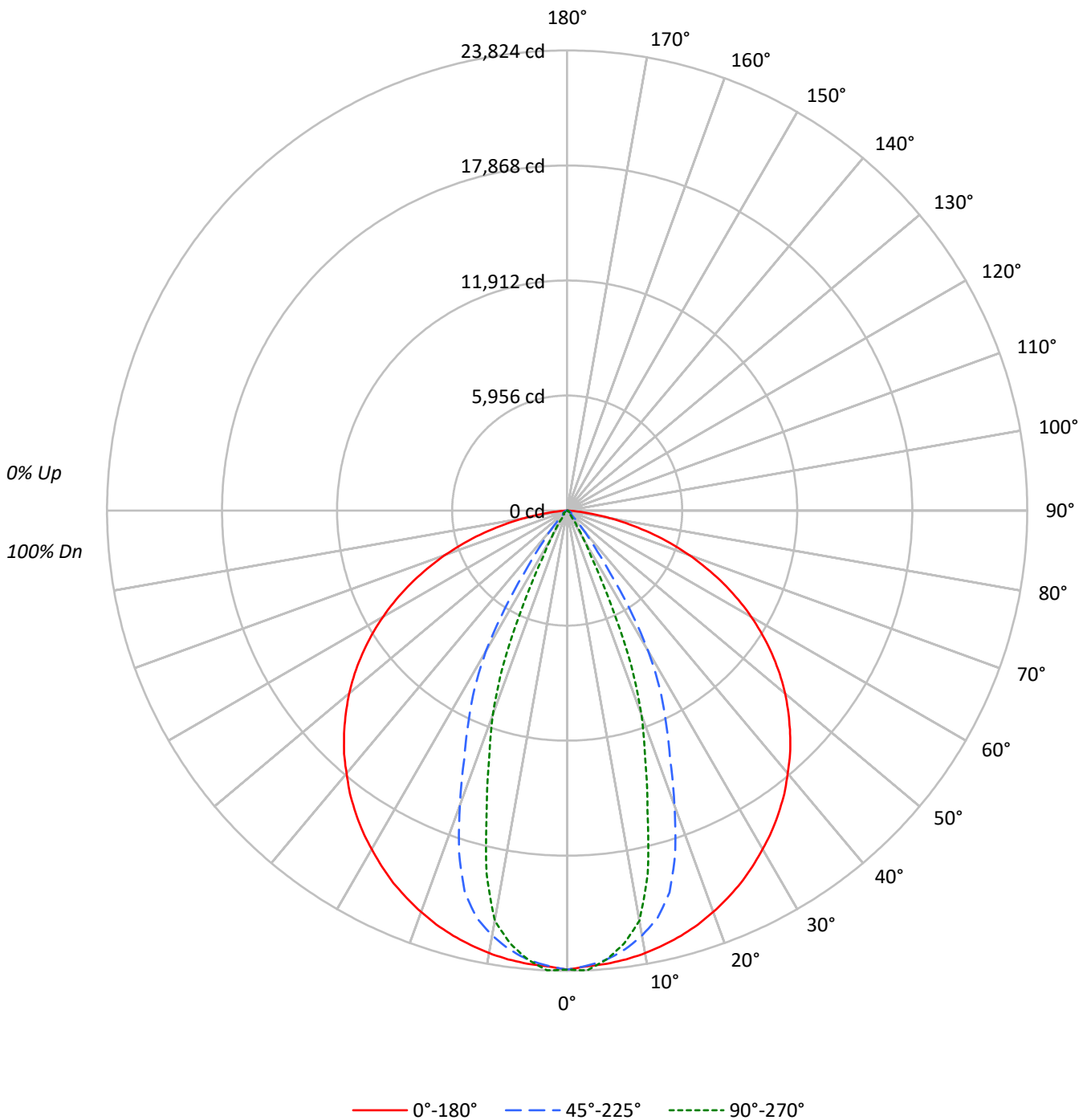
Lumens per Lamp: N/A
Luminaire Lumens: 25261.0 lumens
Efficiency: N/A
Efficacy: 172.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31978	31978	31978
5°	31807	31526	31512
10°	31787	30516	29445
15°	31742	28509	22409
20°	31668	23240	16130
25°	31588	17970	7946
30°	31448	13060	2577
35°	31373	5794	663
40°	31209	2353	447
45°	31070	660	476
50°	30828	469	528
55°	30383	557	225
60°	29634	621	137
65°	28415	396	162
70°	26398	351	200
75°	23093	265	276
80°	17266	324	394
85°	8553	418	523



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2205.6	8.7
10°-20°	5515.1	21.8
20°-30°	5973.7	23.6
30°-40°	4423.7	17.5
40°-50°	3186.3	12.6
50°-60°	1972.9	7.8
60°-70°	1213.3	4.8
70°-80°	639.6	2.5
80°-90°	130.9	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°	13694.3	54.2
0°-40°	18118.0	71.7
0°-60°	23277.2	92.1
0°-90°	25261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23767	23767	23767	23767	23767	
5°	23550	23637	23342	23358	23331	###
15°	22788	22258	20466	17405	16088	6433
25°	21277	19490	12104	7615	5352	9804
35°	19101	13466	3528	830	404	11950
45°	16328	7586	347	251	250	12592
55°	12952	1562	237	215	96	11563
65°	8925	165	124	79	51	8806
75°	4442	38	51	67	53	4692
85°	554	15	27	41	34	837
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23766.7	23766.7	23766.7	23766.7	23766.7
2.5°	23614.1	23764.4	23586.9	23719.2	23824.4
5°	23549.6	23636.7	23341.6	23358.5	23331.4
7.5°	23436.6	23416.2	22919.9	22702.8	22607.8
10°	23265.8	23131.3	22335.3	21882.0	21551.8
12.5°	23045.4	22744.6	21606.1	20164.6	19269.1
15°	22787.6	22258.5	20466.4	17404.7	16087.5
17.5°	22480.1	21730.5	18603.2	14587.2	13411.4
20°	22117.1	21141.4	16231.1	12410.8	11265.5
22.5°	21712.4	20424.6	13926.9	10314.6	8680.9
25°	21277.1	19489.6	12104.4	7614.7	5352.3
27.5°	20774.0	18287.7	10394.9	4485.2	2731.6
30°	20241.4	16840.5	8406.1	2412.7	1658.6
32.5°	19704.4	15200.0	5948.2	1507.1	940.7
35°	19100.6	13465.6	3527.5	829.9	403.6
37.5°	18470.9	11876.0	2084.9	377.6	258.9
40°	17768.8	10423.2	1339.8	251.0	254.4
42.5°	17090.4	9068.7	754.1	247.6	252.1
45°	16328.4	7586.4	347.1	251.0	249.9
47.5°	15540.3	6049.9	225.0	253.3	253.3
50°	14727.4	4325.7	223.9	258.9	252.1
52.5°	13869.3	2698.8	232.9	257.8	206.9
55°	12952.3	1562.5	237.4	214.8	96.1
57.5°	12002.6	921.5	239.7	123.2	54.3
60°	11012.2	509.9	230.6	91.6	50.9
62.5°	9991.3	243.1	182.0	85.9	49.7
65°	8925.1	165.1	124.4	79.1	50.9
67.5°	7818.2	127.8	98.4	74.6	52.0
70°	6710.2	95.0	89.3	74.6	50.9
72.5°	5584.1	64.4	74.6	75.8	50.9
75°	4442.2	38.4	50.9	66.7	53.1
77.5°	3310.4	23.7	39.6	69.0	64.4
80°	2228.4	20.4	41.8	64.4	50.9
82.5°	1308.1	18.1	40.7	49.7	40.7
85°	554.0	14.7	27.1	40.7	33.9
87.5°	104.0	12.4	21.5	32.8	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)