

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-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-LD5-24SE-N-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

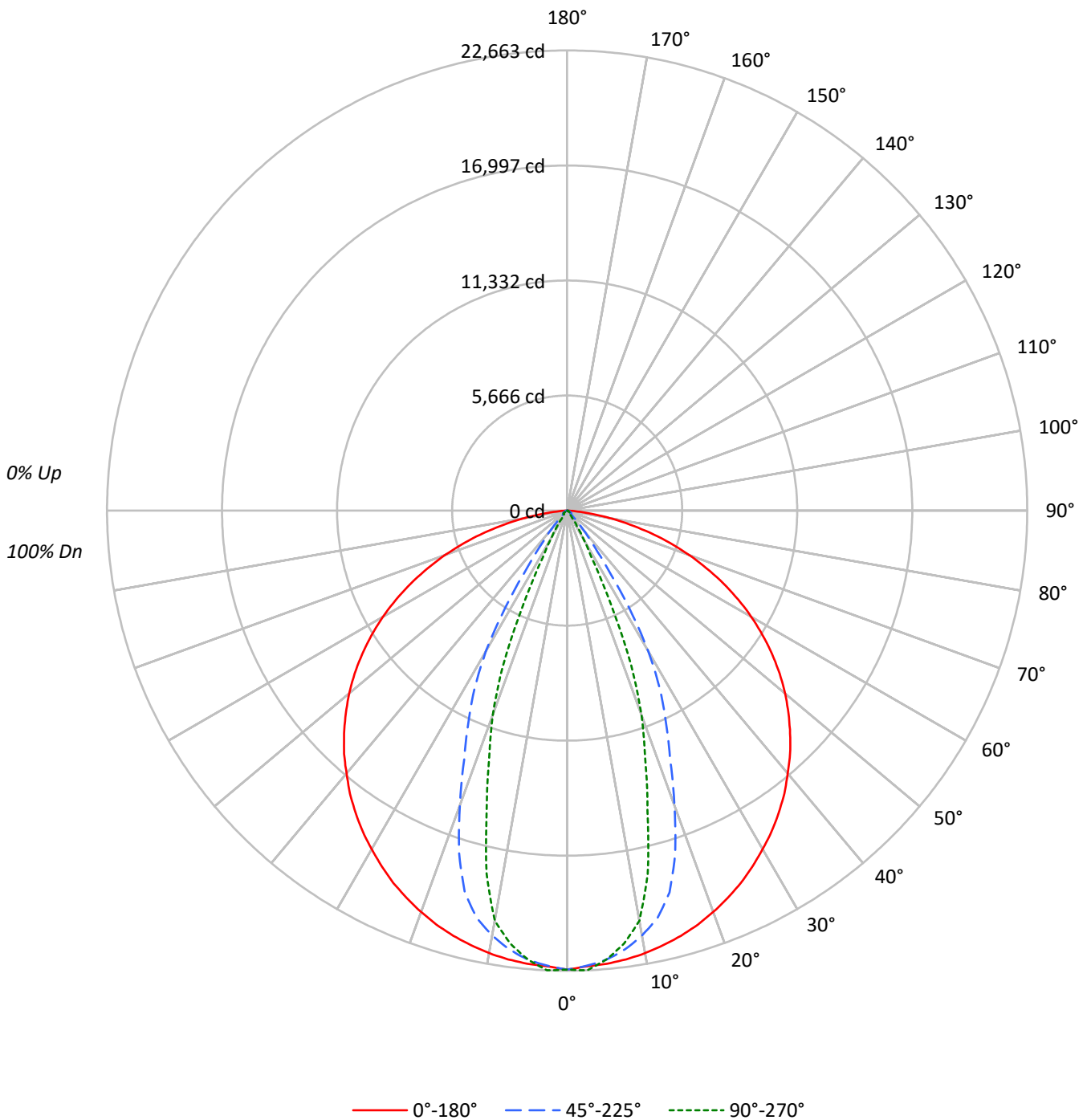
Lumens per Lamp: N/A
Luminaire Lumens: 24030.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95	93	92	90
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87	85	82	81
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81	77	74	73
4	92	82	76	70	90	81	75	70	79	73	69		77	72	68		75	71	67	66
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70	65	62	60
6	81	70	63	58	79	70	63	58	68	62	58		66	61	57		65	60	57	55
7	76	66	58	54	75	65	58	53	63	57	53		62	57	53		61	56	52	51
8	72	61	54	49	71	61	54	49	59	53	49		58	53	49		57	52	49	47
9	68	57	51	46	67	57	50	46	56	50	46		55	49	46		54	49	45	44
10	65	54	47	43	64	53	47	43	53	47	43		52	46	43		51	46	42	41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	30419	30419	30419
5°	30257	29989	29976
10°	30238	29028	28010
15°	30195	27120	21317
20°	30125	22108	15344
25°	30048	17094	7559
30°	29915	12424	2451
35°	29845	5512	631
40°	29688	2239	425
45°	29556	628	452
50°	29325	446	502
55°	28903	530	214
60°	28190	590	130
65°	27030	377	154
70°	25111	334	190
75°	21968	252	263
80°	16426	308	375
85°	8136	398	499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2098.1	8.7
10°-20°	5246.3	21.8
20°-30°	5682.5	23.6
30°-40°	4208.2	17.5
40°-50°	3031.0	12.6
50°-60°	1876.7	7.8
60°-70°	1154.2	4.8
70°-80°	608.4	2.5
80°-90°	124.5	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°	13027.0	54.2
0°-40°	17235.1	71.7
0°-60°	22142.8	92.1
0°-90°	24030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22608	22608	22608	22608	22608	
5°	22402	22485	22204	22220	22194	###
15°	21677	21174	19469	16557	15304	6119
25°	20240	18540	11514	7244	5092	9326
35°	18170	12809	3356	789	384	11367
45°	15533	7217	330	239	238	11979
55°	12321	1486	226	204	91	10999
65°	8490	157	118	75	48	8377
75°	4226	37	48	64	50	4463
85°	527	14	26	39	32	796
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22608.5	22608.5	22608.5	22608.5	22608.5
2.5°	22463.3	22606.4	22437.5	22563.3	22663.4
5°	22402.0	22484.8	22204.1	22220.3	22194.4
7.5°	22294.5	22275.1	21803.0	21596.5	21506.1
10°	22132.1	22004.1	21246.9	20815.6	20501.6
12.5°	21922.3	21636.2	20553.2	19181.9	18330.1
15°	21677.1	21173.8	19469.1	16556.6	15303.6
17.5°	21384.6	20671.5	17696.6	13876.4	12757.8
20°	21039.3	20111.2	15440.2	11806.0	10716.5
22.5°	20654.3	19429.3	13248.3	9812.0	8257.8
25°	20240.2	18539.8	11514.5	7243.6	5091.5
27.5°	19761.6	17396.5	9888.3	4266.6	2598.5
30°	19255.0	16019.9	7996.5	2295.2	1577.8
32.5°	18744.2	14459.3	5658.3	1433.7	894.8
35°	18169.8	12809.4	3355.6	789.4	384.0
37.5°	17570.8	11297.3	1983.3	359.2	246.3
40°	16902.9	9915.2	1274.5	238.8	242.0
42.5°	16257.6	8626.7	717.4	235.5	239.8
45°	15532.7	7216.7	330.2	238.8	237.7
47.5°	14783.0	5755.1	214.0	240.9	240.9
50°	14009.7	4114.9	213.0	246.3	239.8
52.5°	13193.4	2567.3	221.6	245.2	196.8
55°	12321.2	1486.4	225.9	204.3	91.4
57.5°	11417.7	876.5	228.0	117.2	51.6
60°	10475.6	485.1	219.4	87.1	48.4
62.5°	9504.4	231.2	173.2	81.7	47.3
65°	8490.2	157.0	118.3	75.3	48.4
67.5°	7437.2	121.5	93.6	71.0	49.5
70°	6383.2	90.3	85.0	71.0	48.4
72.5°	5312.0	61.3	71.0	72.1	48.4
75°	4225.7	36.6	48.4	63.5	50.5
77.5°	3149.1	22.6	37.6	65.6	61.3
80°	2119.9	19.4	39.8	61.3	48.4
82.5°	1244.4	17.2	38.7	47.3	38.7
85°	527.0	14.0	25.8	38.7	32.3
87.5°	98.9	11.8	20.4	31.2	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)