

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-W-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 (P23760)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-W-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

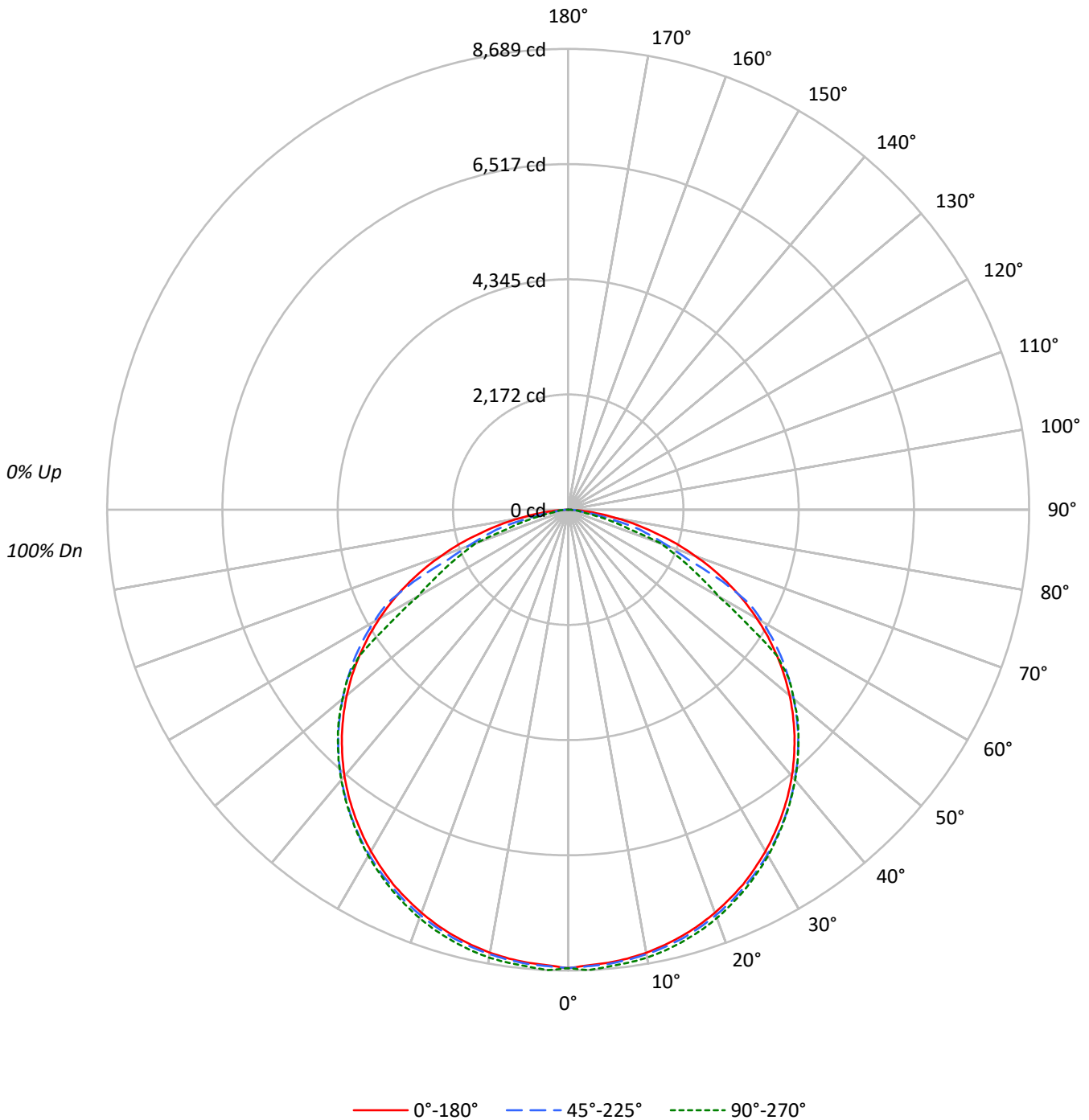
Lumens per Lamp: N/A
Luminaire Lumens: 24953.0 lumens
Efficiency: N/A
Efficacy: 162.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11630	11630	11630
5°	11582	11614	11680
10°	11588	11629	11717
15°	11585	11647	11728
20°	11579	11653	11735
25°	11575	11658	11723
30°	11555	11668	11711
35°	11540	11673	11688
40°	11519	11672	11691
45°	11476	11667	11681
50°	11407	11618	11616
55°	11274	11556	11269
60°	11065	11386	8818
65°	10696	10247	7944
70°	10020	7884	7321
75°	8872	6874	4563
80°	7307	4047	2039
85°	4815	2479	2672



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.2	3.3
10°-20°	2366.4	9.5
20°-30°	3628.0	14.5
30°-40°	4449.4	17.8
40°-50°	4724.5	18.9
50°-60°	4315.3	17.3
60°-70°	3005.1	12.0
70°-80°	1401.6	5.6
80°-90°	242.5	1.0
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°	6814.6	27.3
0°-40°	11264.0	45.1
0°-60°	20303.8	81.4
0°-90°	24953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24953.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8644	8644	8644	8644	8644	
5°	8575	8635	8599	8640	8648	816
15°	8317	8375	8362	8412	8420	2349
25°	7797	7865	7853	7911	7896	3593
35°	7026	7107	7107	7154	7116	4397
45°	6031	6122	6132	6171	6139	4651
55°	4806	4903	4926	4935	4804	4292
65°	3360	3463	3219	2560	2495	3315
75°	1707	1814	1322	916	878	1824
85°	312	205	161	172	173	403
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8643.5	8643.5	8643.5	8643.5	8643.5
2.5°	8597.9	8652.8	8616.5	8655.9	8689.1
5°	8575.1	8635.2	8598.9	8640.4	8647.6
7.5°	8537.8	8594.8	8561.6	8607.2	8618.6
10°	8481.8	8537.8	8511.9	8565.8	8576.1
12.5°	8406.2	8463.2	8443.5	8502.6	8509.8
15°	8317.1	8375.1	8361.6	8412.4	8419.7
17.5°	8212.4	8272.5	8257.0	8310.9	8316.0
20°	8087.0	8152.3	8138.8	8202.0	8195.8
22.5°	7946.1	8015.5	8005.2	8068.4	8049.7
25°	7796.9	7865.3	7852.8	7910.9	7896.3
27.5°	7621.7	7697.4	7686.0	7741.9	7719.1
30°	7437.3	7514.0	7509.8	7560.6	7537.8
32.5°	7238.3	7320.2	7316.0	7365.8	7330.5
35°	7025.9	7106.7	7106.7	7154.4	7116.0
37.5°	6801.0	6882.9	6883.9	6929.5	6893.2
40°	6558.5	6640.4	6645.6	6689.1	6655.9
42.5°	6303.6	6392.7	6396.9	6436.2	6405.2
45°	6031.1	6122.3	6131.6	6171.0	6138.8
47.5°	5746.1	5838.3	5846.6	5889.1	5866.3
50°	5449.7	5538.8	5550.2	5585.5	5549.2
52.5°	5136.8	5228.0	5243.5	5265.3	5248.7
55°	4806.2	4902.6	4926.4	4934.7	4804.1
57.5°	4464.2	4562.7	4585.5	4394.8	3975.1
60°	4111.9	4209.3	4231.1	3575.1	3276.7
62.5°	3745.1	3840.4	3864.2	2962.7	2867.3
65°	3359.6	3463.2	3218.6	2559.6	2495.3
67.5°	2963.7	3070.5	2434.2	2193.8	2155.4
70°	2547.1	2654.9	2004.1	1870.5	1861.1
72.5°	2147.1	2226.9	1644.6	1417.6	1193.8
75°	1706.7	1814.5	1322.3	916.1	877.7
77.5°	1323.3	1144.0	797.9	671.5	529.5
80°	943.0	764.8	522.3	278.8	263.2
82.5°	597.9	499.5	205.2	210.4	219.7
85°	311.9	205.2	160.6	172.0	173.1
87.5°	100.5	88.1	96.4	95.3	94.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)