

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-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24SE-N-CLWG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

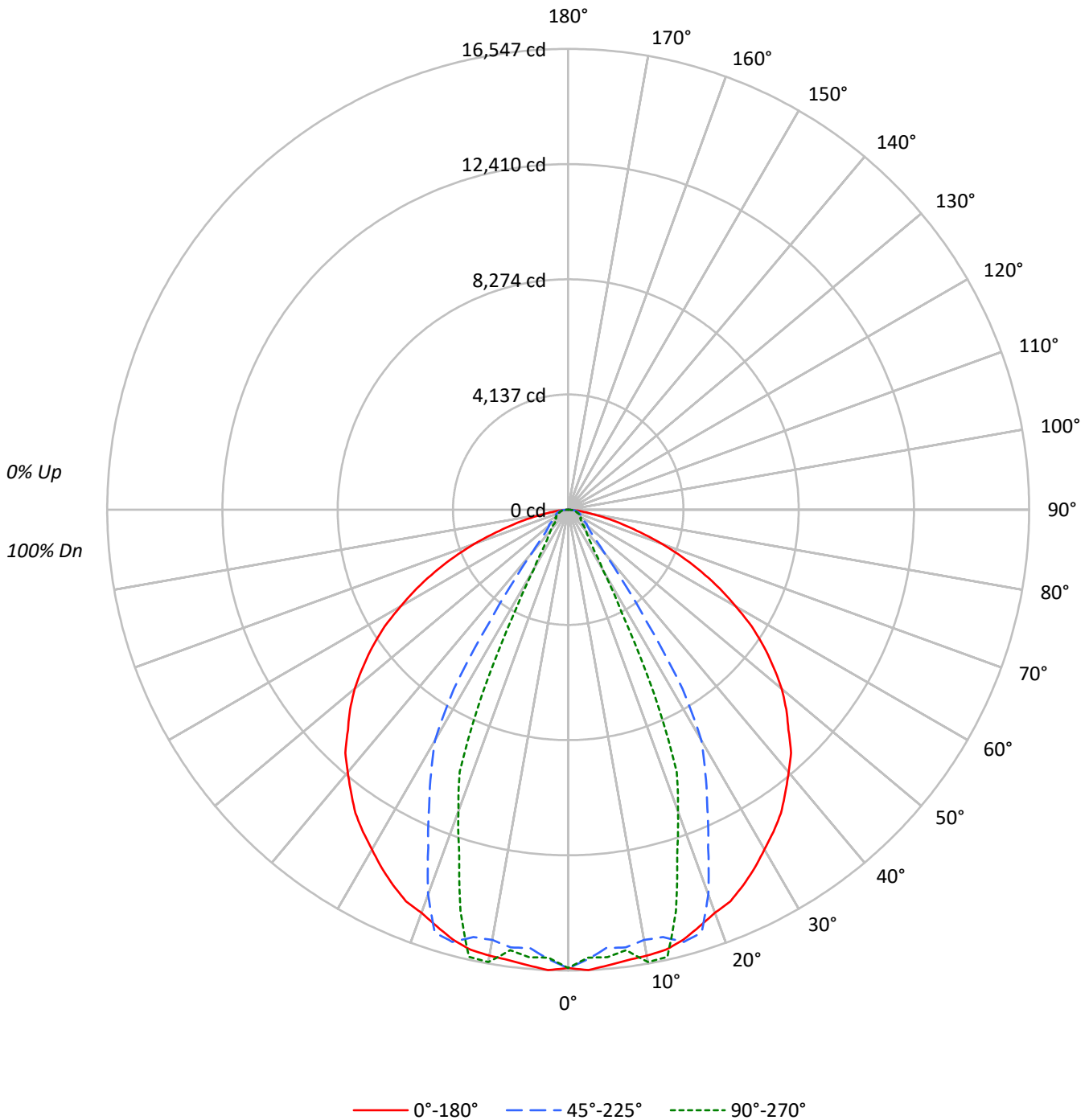
Lumens per Lamp: N/A
Luminaire Lumens: 22124.0 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22143	22143	22143
5°	22179	21334	21784
10°	22211	21437	22537
15°	22261	22377	20798
20°	22050	21047	16508
25°	22082	17546	10783
30°	21884	14864	3874
35°	21861	8052	2179
40°	21614	3510	1707
45°	21279	2170	1338
50°	20948	1890	1263
55°	20124	1639	1236
60°	18672	1468	1328
65°	16783	1660	1451
70°	14076	1784	1496
75°	10522	2035	1620
80°	6609	2363	1848
85°	4400	2963	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1525.3	6.9
10°-20°	4307.2	19.5
20°-30°	5274.3	23.8
30°-40°	4141.9	18.7
40°-50°	3071.5	13.9
50°-60°	1869.9	8.5
60°-70°	1120.1	5.1
70°-80°	614.5	2.8
80°-90°	199.3	0.9
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°	11106.8	50.2
0°-40°	15248.7	68.9
0°-60°	20190.1	91.3
0°-90°	22124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16457	16457	16457	16457	16457	
5°	16421	15974	15796	15970	16129	###
15°	15981	15543	16064	15416	14931	4500
25°	14874	14921	11819	9270	7264	6847
35°	13309	12107	4902	1640	1326	8305
45°	11183	8030	1140	864	703	8648
55°	8579	2213	699	591	527	7634
65°	5272	652	521	490	456	5208
75°	2024	412	392	340	312	2192
85°	285	224	192	176	175	348
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16456.9	16456.9	16456.9	16456.9	16456.9
2.5°	16546.8	16323.8	16153.0	16057.7	16096.5
5°	16421.4	15974.5	15795.9	15970.0	16128.6
7.5°	16312.8	15648.4	15850.3	15865.8	15949.0
10°	16257.3	15617.3	15690.5	16035.5	16495.8
12.5°	16184.1	15689.4	15714.9	16185.2	16444.7
15°	15981.1	15543.0	16064.3	15415.5	14930.8
17.5°	15685.0	15201.4	15917.9	13656.4	12997.6
20°	15400.0	14829.9	14699.0	12164.7	11529.2
22.5°	15215.8	14773.3	13130.7	10839.3	10182.7
25°	14874.2	14920.8	11818.7	9269.9	7263.5
27.5°	14498.3	14573.7	10658.5	6182.2	4161.4
30°	14085.7	14172.2	9567.2	3653.4	2493.3
32.5°	13711.9	13223.9	7640.6	2279.2	1733.5
35°	13309.3	12107.0	4902.3	1640.4	1326.5
37.5°	12802.4	10933.6	3103.3	1297.7	1113.5
40°	12305.5	9879.9	1998.6	1108.0	971.6
42.5°	11840.8	9011.5	1454.0	968.3	877.3
45°	11183.1	8029.9	1140.2	864.0	703.2
47.5°	10614.2	6878.7	997.1	730.9	606.7
50°	10007.5	5259.4	902.8	649.9	603.4
52.5°	9287.7	3440.5	834.0	622.2	563.4
55°	8578.9	2212.7	698.7	591.2	526.8
57.5°	7813.7	1403.0	616.7	573.4	550.1
60°	6938.6	946.1	545.7	543.5	493.6
62.5°	6128.9	777.5	526.8	521.3	466.9
65°	5271.6	652.2	521.3	490.2	455.8
67.5°	4415.4	559.0	471.4	448.1	418.1
70°	3578.0	511.3	453.6	443.6	380.4
72.5°	2717.3	421.5	402.6	376.0	316.1
75°	2024.1	411.5	391.5	340.5	311.7
77.5°	1369.7	379.3	356.0	305.0	281.7
80°	852.9	348.3	305.0	267.3	238.5
82.5°	506.9	290.6	250.7	220.7	201.9
85°	285.0	224.0	191.9	176.3	175.2
87.5°	61.0	81.0	64.3	61.0	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)