

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-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-CLWG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

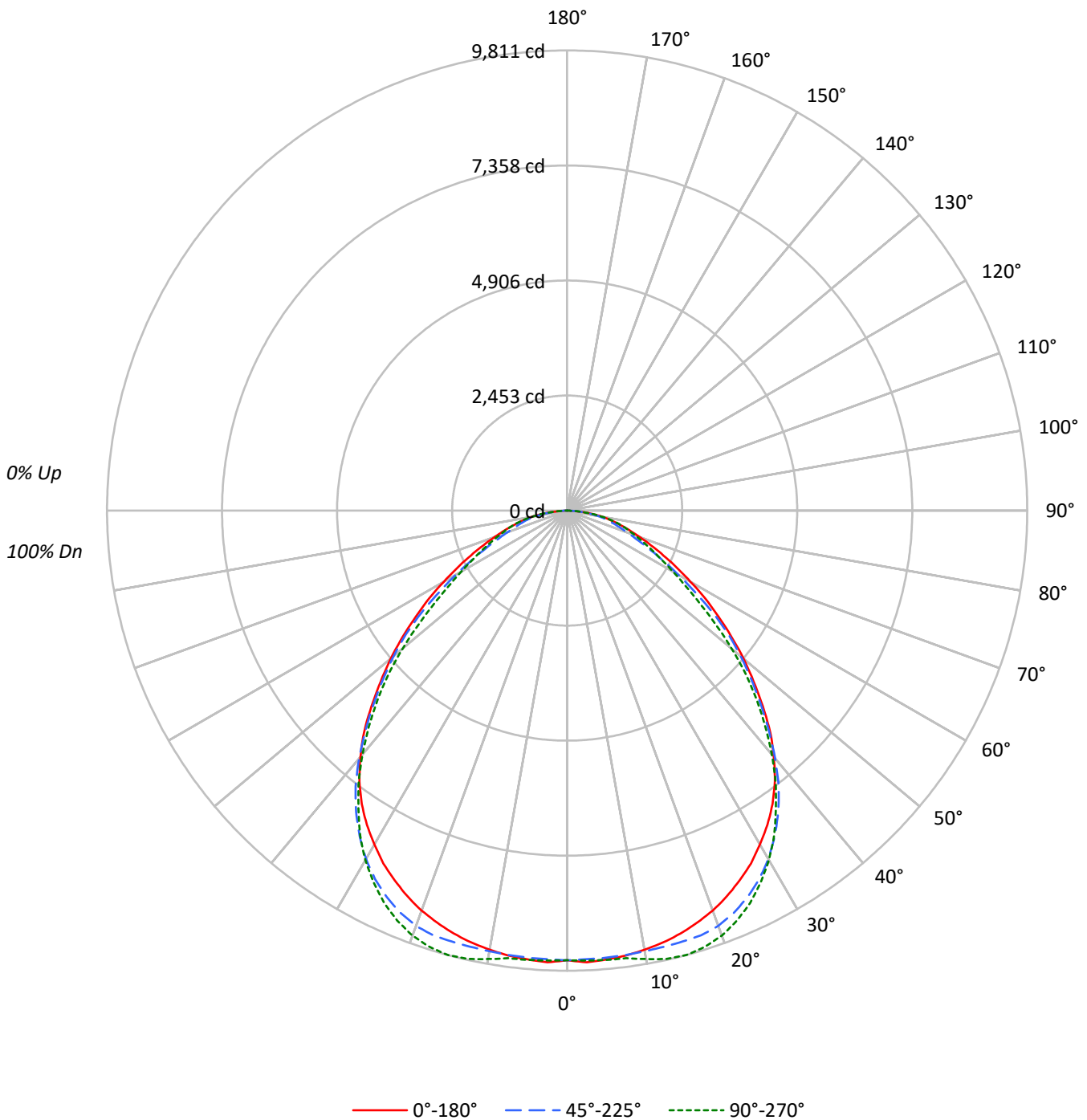
Lumens per Lamp: N/A
Luminaire Lumens: 23912.0 lumens
Efficiency: N/A
Efficacy: 163.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 146.3
Input Voltage (V): NR
Input Current (A_{in}): 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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12901	12901	12901
5°	12977	12923	12987
10°	12988	13032	13265
15°	13004	13249	13666
20°	12996	13491	13806
25°	12916	13504	13702
30°	12768	13325	13367
35°	12540	12893	12739
40°	12045	12119	11928
45°	11223	11106	10880
50°	10276	10110	9592
55°	9230	8887	8110
60°	8186	7354	7001
65°	7212	6110	6354
70°	6450	5302	6051
75°	6042	5155	6120
80°	5883	5212	5825
85°	4696	4123	4276



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	913.4	3.8
10°-20°	2690.4	11.3
20°-30°	4138.8	17.3
30°-40°	4830.2	20.2
40°-50°	4488.5	18.8
50°-60°	3327.1	13.9
60°-70°	2033.9	8.5
70°-80°	1158.5	4.8
80°-90°	331.3	1.4
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°	7742.5	32.4
0°-40°	12572.7	52.6
0°-60°	20388.3	85.3
0°-90°	23912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9588	9588	9588	9588	9588	
5°	9608	9563	9568	9561	9615	914
15°	9336	9331	9511	9699	9811	2635
25°	8700	8767	9096	9172	9229	4008
35°	7634	7694	7850	7785	7756	4757
45°	5898	5933	5836	5745	5718	4545
55°	3935	3836	3789	3519	3457	3531
65°	2265	2058	1919	1971	1996	2267
75°	1162	1091	992	1130	1177	1244
85°	304	297	267	277	277	351
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9588.0	9588.0	9588.0	9588.0	9588.0
2.5°	9640.0	9585.5	9575.7	9553.4	9602.9
5°	9607.8	9563.3	9568.2	9560.8	9615.2
7.5°	9570.7	9538.6	9558.3	9555.9	9627.6
10°	9506.4	9489.1	9538.6	9593.0	9709.2
12.5°	9434.7	9417.4	9526.2	9664.7	9790.8
15°	9335.8	9330.8	9511.4	9699.3	9810.6
17.5°	9212.1	9219.5	9494.0	9654.8	9753.7
20°	9076.1	9088.5	9422.3	9553.4	9642.4
22.5°	8900.5	8942.6	9283.8	9392.7	9461.9
25°	8700.2	8767.0	9095.9	9172.5	9229.4
27.5°	8485.0	8551.8	8863.4	8903.0	8935.1
30°	8218.0	8311.9	8576.5	8581.5	8603.7
32.5°	7945.9	8030.0	8232.8	8210.5	8215.5
35°	7634.3	7693.7	7849.5	7785.2	7755.5
37.5°	7275.7	7307.9	7406.8	7310.3	7305.4
40°	6857.8	6899.8	6899.8	6766.3	6791.0
42.5°	6412.6	6427.5	6365.6	6239.5	6259.3
45°	5898.2	5932.9	5836.4	5744.9	5717.7
47.5°	5388.8	5423.4	5322.0	5215.7	5168.7
50°	4909.0	4891.7	4829.9	4649.3	4582.6
52.5°	4411.9	4357.5	4332.8	4068.2	3991.5
55°	3934.6	3835.7	3788.7	3519.2	3457.3
57.5°	3491.9	3313.9	3224.9	3014.7	2989.9
60°	3041.9	2841.5	2732.7	2596.7	2601.7
62.5°	2633.8	2423.6	2292.5	2253.0	2270.3
65°	2265.3	2057.6	1919.1	1971.0	1995.8
67.5°	1931.5	1760.8	1605.0	1726.2	1750.9
70°	1639.6	1503.6	1347.8	1525.9	1538.2
72.5°	1397.3	1286.0	1154.9	1323.1	1350.3
75°	1162.3	1090.6	991.7	1130.2	1177.2
77.5°	957.1	900.2	843.3	927.4	979.3
80°	759.2	702.3	672.7	717.2	751.8
82.5°	536.7	499.6	469.9	502.0	519.3
85°	304.2	296.8	267.1	277.0	277.0
87.5°	69.2	79.1	89.0	81.6	69.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)