

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-AI-UNV-L850-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 (P23765)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-24HE-W-AI-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

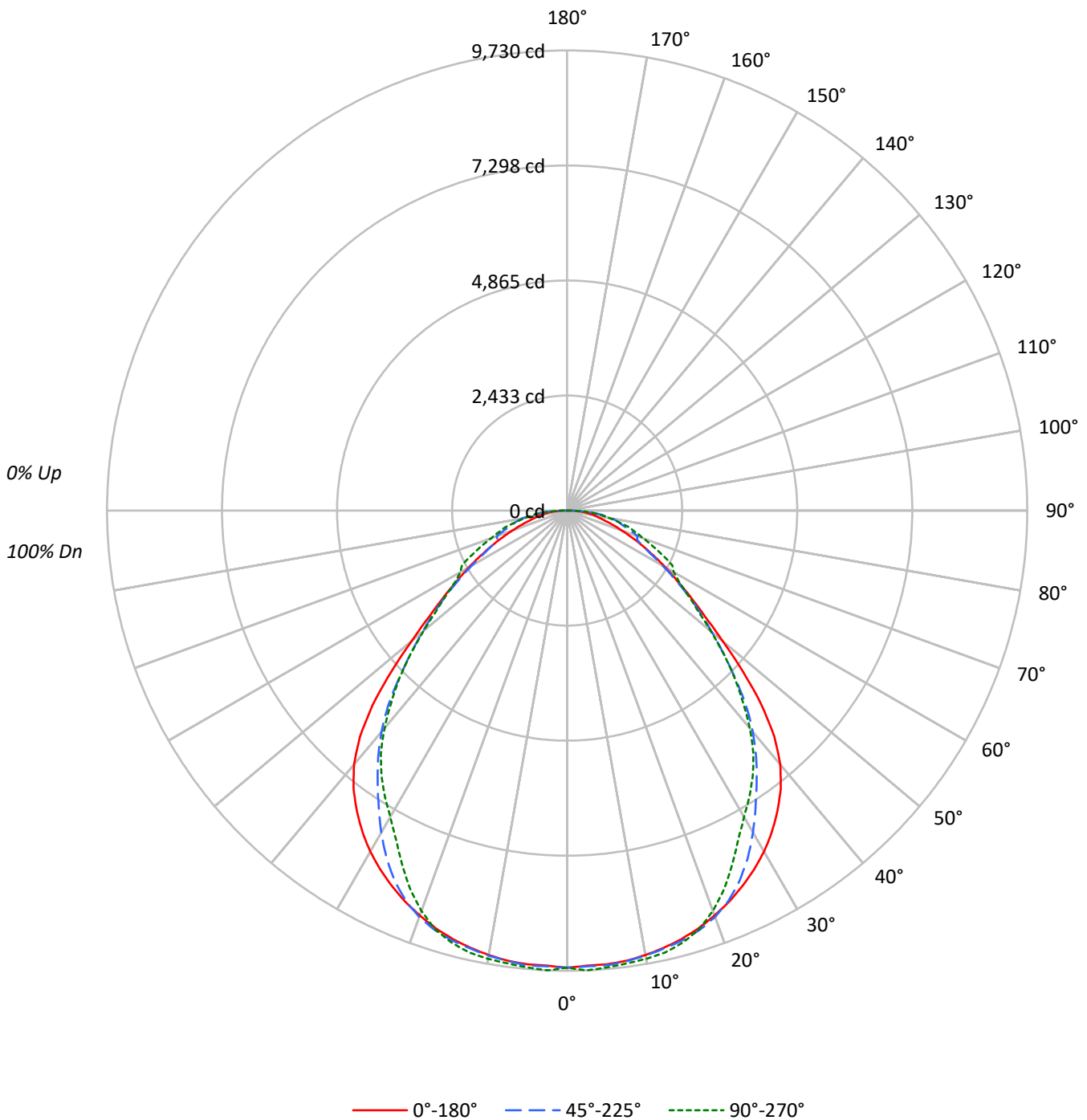
Lumens per Lamp: N/A
Luminaire Lumens: 22372.0 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13005	13005	13005
5°	13004	13032	13096
10°	13036	13053	13148
15°	13056	13105	13169
20°	13043	13092	12897
25°	13010	12815	12258
30°	12934	12211	11616
35°	12739	11477	11238
40°	12313	10731	10554
45°	11067	9582	9547
50°	8976	8346	8289
55°	7453	7315	7312
60°	6453	6265	7004
65°	5592	5558	7060
70°	4822	6235	6730
75°	4324	6390	7015
80°	4495	7522	7039
85°	5102	8668	8043



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.3	4.1
10°-20°	2657.8	11.9
20°-30°	3947.4	17.6
30°-40°	4481.4	20.0
40°-50°	4006.2	17.9
50°-60°	2769.9	12.4
60°-70°	1827.7	8.2
70°-80°	1233.1	5.5
80°-90°	528.1	2.4
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°	7525.5	33.6
0°-40°	12006.9	53.7
0°-60°	18783.0	84.0
0°-90°	22372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	22372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9665	9665	9665	9665	9665	
5°	9628	9687	9649	9688	9696	916
15°	9373	9418	9408	9461	9454	2646
25°	8764	8847	8632	8375	8257	4038
35°	7756	7592	6987	6885	6842	4836
45°	5816	5324	5036	5074	5017	4423
55°	3177	2900	3118	3074	3117	2886
65°	1757	1560	1746	2041	2217	1753
75°	832	1046	1229	1313	1350	908
85°	330	460	562	565	521	345
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9665.4	9665.4	9665.4	9665.4	9665.4
2.5°	9632.6	9692.8	9647.9	9689.5	9730.0
5°	9628.2	9687.3	9649.0	9688.4	9696.0
7.5°	9600.8	9655.5	9610.7	9649.0	9657.7
10°	9541.7	9606.3	9553.8	9612.9	9623.8
12.5°	9465.1	9530.8	9484.8	9565.8	9570.2
15°	9373.2	9418.0	9408.2	9460.7	9454.2
17.5°	9257.2	9308.6	9300.9	9314.1	9283.4
20°	9109.4	9167.4	9143.3	9083.1	9007.6
22.5°	8950.7	9020.7	8925.5	8773.4	8667.2
25°	8763.5	8846.7	8632.2	8375.0	8256.8
27.5°	8556.7	8631.1	8274.3	7959.1	7836.5
30°	8324.7	8356.4	7859.5	7559.6	7476.4
32.5°	8056.5	8010.5	7416.2	7218.1	7170.0
35°	7755.5	7592.4	6987.2	6885.4	6841.6
37.5°	7416.2	7117.4	6563.6	6516.6	6470.6
40°	7010.2	6569.1	6109.4	6078.8	6008.7
42.5°	6485.9	5972.6	5604.9	5568.7	5506.4
45°	5816.1	5323.6	5035.7	5074.0	5017.1
47.5°	5045.6	4672.4	4489.6	4594.6	4489.6
50°	4288.2	4037.6	3987.2	4082.4	3959.8
52.5°	3667.6	3442.2	3546.1	3562.5	3489.2
55°	3177.3	2900.4	3118.2	3074.4	3117.1
57.5°	2750.4	2440.7	2708.9	2658.5	2805.2
60°	2398.0	2050.0	2328.0	2317.0	2602.7
62.5°	2052.2	1774.2	1997.4	2158.3	2509.7
65°	1756.6	1559.6	1745.7	2041.2	2217.4
67.5°	1473.2	1398.8	1596.9	1761.0	1953.7
70°	1225.8	1264.1	1584.8	1554.2	1710.7
72.5°	1017.9	1148.1	1398.8	1404.2	1514.8
75°	831.8	1046.3	1229.1	1313.4	1349.5
77.5°	691.7	948.9	1109.8	1139.4	1104.3
80°	580.1	836.2	970.8	957.7	908.4
82.5°	468.4	633.7	765.0	777.1	719.1
85°	330.5	459.7	561.5	564.8	521.0
87.5°	177.3	283.5	340.4	350.2	324.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)