

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-LD5-36SE-W-AI-UNV-L840-ED3-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-LD5-36SE-W-AI-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

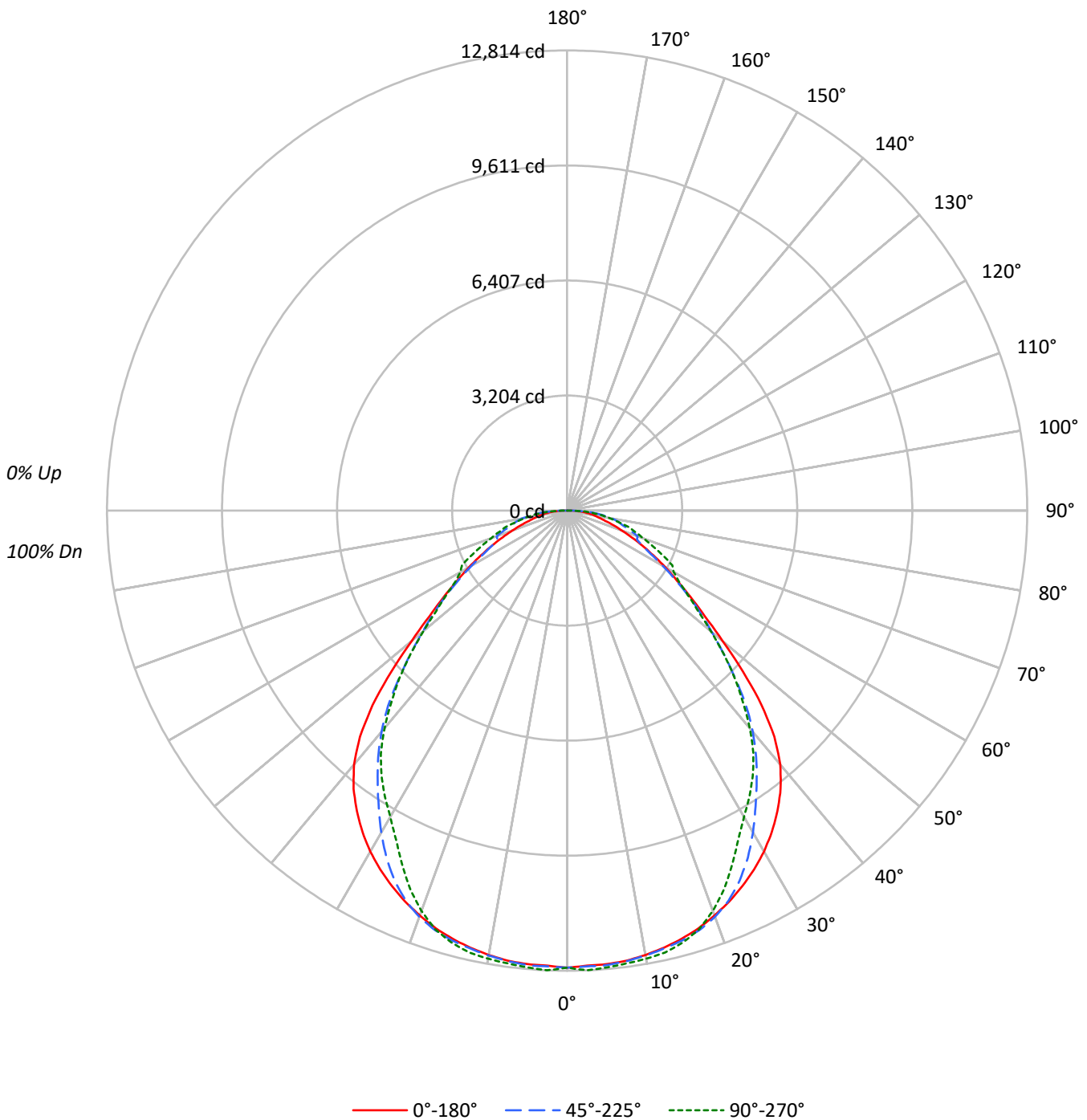
Lumens per Lamp: N/A
Luminaire Lumens: 29462.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
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				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	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	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36					34				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17126	17126	17126
5°	17125	17162	17246
10°	17168	17189	17315
15°	17194	17258	17343
20°	17177	17241	16985
25°	17133	16877	16143
30°	17032	16081	15297
35°	16776	15114	14799
40°	16215	14131	13898
45°	14574	12619	12572
50°	11821	10991	10916
55°	9815	9633	9629
60°	8498	8250	9223
65°	7365	7319	9297
70°	6351	8211	8862
75°	5695	8414	9239
80°	5919	9906	9269
85°	6720	11415	10592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1211.9	4.1
10°-20°	3500.1	11.9
20°-30°	5198.4	17.6
30°-40°	5901.7	20.0
40°-50°	5275.8	17.9
50°-60°	3647.7	12.4
60°-70°	2407.0	8.2
70°-80°	1623.8	5.5
80°-90°	695.5	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°	9910.5	33.6
0°-40°	15812.1	53.7
0°-60°	24735.7	84.0
0°-90°	29462.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12728	12728	12728	12728	12728	
5°	12680	12757	12707	12759	12769	###
15°	12344	12403	12390	12459	12450	3484
25°	11541	11650	11368	11029	10874	5318
35°	10213	9999	9202	9068	9010	6369
45°	7659	7011	6632	6682	6607	5825
55°	4184	3820	4106	4049	4105	3801
65°	2313	2054	2299	2688	2920	2309
75°	1095	1378	1619	1730	1777	1196
85°	435	605	739	744	686	454
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12728.5	12728.5	12728.5	12728.5	12728.5
2.5°	12685.3	12764.5	12705.4	12760.2	12813.5
5°	12679.5	12757.3	12706.9	12758.8	12768.9
7.5°	12643.5	12715.5	12656.4	12706.9	12718.4
10°	12565.6	12650.7	12581.5	12659.3	12673.7
12.5°	12464.7	12551.2	12490.7	12597.3	12603.1
15°	12343.7	12402.8	12389.8	12459.0	12450.3
17.5°	12190.9	12258.6	12248.5	12265.8	12225.5
20°	11996.3	12072.7	12041.0	11961.7	11862.2
22.5°	11787.3	11879.5	11754.1	11553.8	11414.0
25°	11540.8	11650.4	11367.9	11029.2	10873.5
27.5°	11268.4	11366.4	10896.5	10481.4	10320.0
30°	10962.9	11004.6	10350.3	9955.4	9845.8
32.5°	10609.7	10549.2	9766.5	9505.7	9442.2
35°	10213.4	9998.6	9201.5	9067.5	9009.8
37.5°	9766.5	9373.0	8643.7	8581.8	8521.2
40°	9231.8	8650.9	8045.6	8005.2	7913.0
42.5°	8541.4	7865.4	7381.1	7333.6	7251.4
45°	7659.3	7010.7	6631.6	6682.1	6607.1
47.5°	6644.6	6153.1	5912.4	6050.8	5912.4
50°	5647.2	5317.1	5250.8	5376.2	5214.8
52.5°	4829.9	4533.0	4669.9	4691.6	4595.0
55°	4184.2	3819.6	4106.4	4048.7	4104.9
57.5°	3622.1	3214.2	3567.3	3501.0	3694.2
60°	3158.0	2699.6	3065.7	3051.3	3427.5
62.5°	2702.5	2336.4	2630.4	2842.3	3305.0
65°	2313.4	2053.9	2298.9	2688.1	2920.2
67.5°	1940.0	1842.0	2102.9	2319.1	2572.8
70°	1614.3	1664.8	2087.1	2046.7	2252.8
72.5°	1340.4	1512.0	1842.0	1849.2	1994.8
75°	1095.4	1377.9	1618.6	1729.6	1777.2
77.5°	910.9	1249.6	1461.5	1500.4	1454.3
80°	763.9	1101.2	1278.5	1261.2	1196.3
82.5°	616.9	834.5	1007.5	1023.4	947.0
85°	435.3	605.4	739.4	743.7	686.1
87.5°	233.5	373.3	448.3	461.2	426.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)