

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-LD5-36HE-W-WG-UNV-L735-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-WG-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

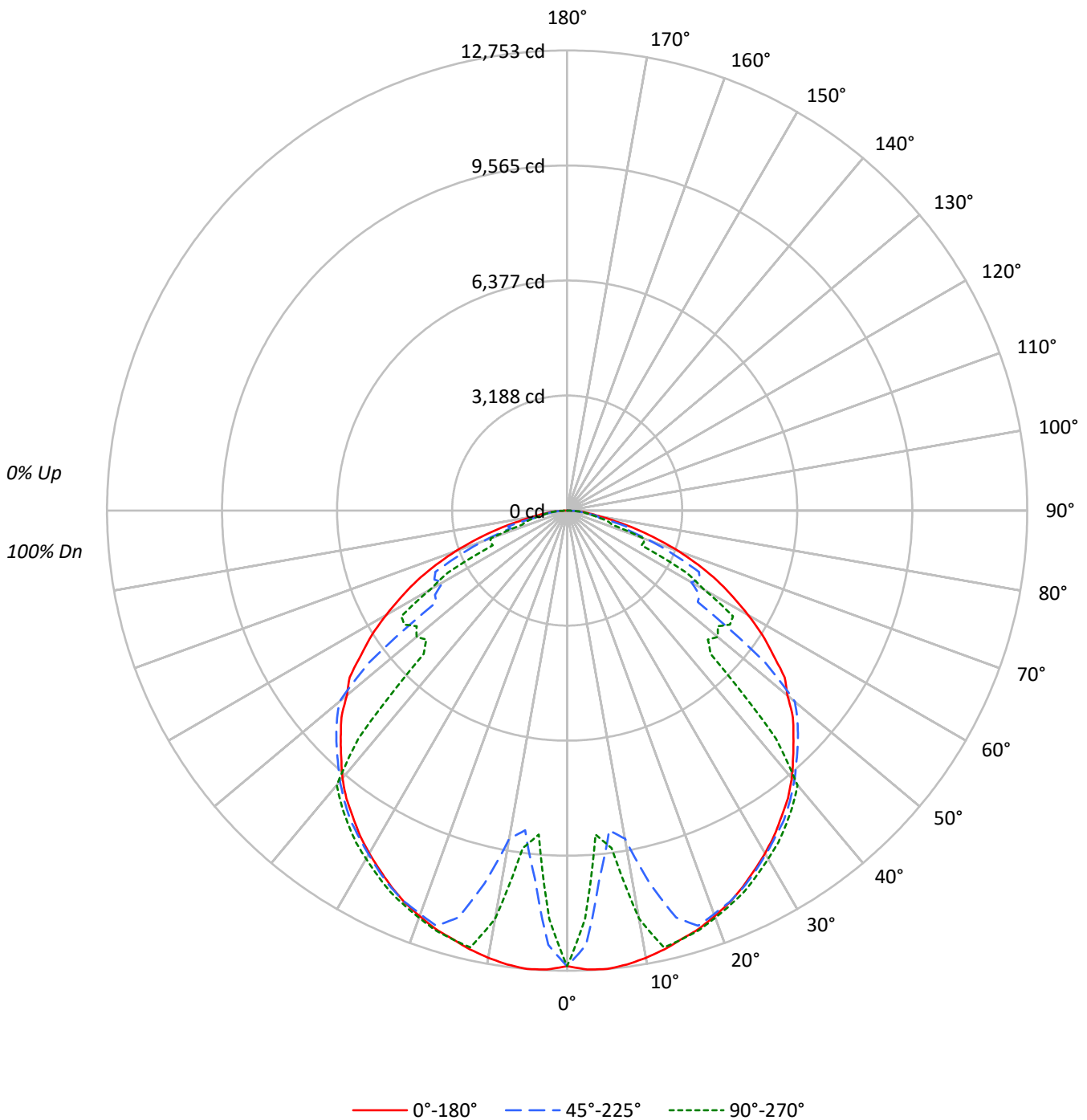
Lumens per Lamp: N/A
Luminaire Lumens: 33449.0 lumens
Efficiency: N/A
Efficacy: 158.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 211.3
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	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	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72				72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61				61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52				52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45				45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39				39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35				35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28				28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16988	16988	16988
5°	17224	13837	12169
10°	17194	12619	15695
15°	17118	16265	17133
20°	17119	17041	17192
25°	17088	17126	17283
30°	17038	17095	17315
35°	17011	17200	17401
40°	17013	17199	17446
45°	16880	17211	10695
50°	16689	17245	11399
55°	16337	10370	12919
60°	15584	10689	11830
65°	14602	12833	7239
70°	12894	9722	8873
75°	10273	8838	6153
80°	7077	6387	5287
85°	6782	5897	5593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.6	3.0
10°-20°	3163.0	9.5
20°-30°	5203.9	15.6
30°-40°	6543.2	19.6
40°-50°	6417.2	19.2
50°-60°	5317.0	15.9
60°-70°	3750.2	11.2
70°-80°	1636.2	4.9
80°-90°	408.8	1.2
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°	9376.5	28.0
0°-40°	15919.7	47.6
0°-60°	27653.9	82.7
0°-90°	33449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12626	12626	12626	12626	12626	
5°	12753	11870	10245	9289	9010	###
15°	12289	8534	11676	12338	12300	3475
25°	11510	10532	11536	11613	11642	5306
35°	10357	10351	10472	10541	10594	6489
45°	8871	8898	9045	8011	5621	6848
55°	6964	7192	4420	5026	5508	6231
65°	4587	4857	4031	3101	2274	4510
75°	1976	1937	1700	1111	1184	2119
85°	439	391	382	365	362	456
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12625.9	12625.9	12625.9	12625.9	12625.9
2.5°	12730.1	12465.9	12046.2	11517.8	11330.6
5°	12752.7	11869.5	10245.1	9289.4	9010.1
7.5°	12687.8	10787.1	8931.6	9132.4	9428.3
10°	12585.1	9835.9	9236.6	10867.1	11487.6
12.5°	12453.8	8990.5	10581.7	12275.7	12399.4
15°	12289.2	8534.5	11676.3	12337.6	12299.8
17.5°	12150.3	8801.8	12068.8	12213.8	12186.6
20°	11955.6	9334.7	11901.2	12017.5	12006.9
22.5°	11759.3	9965.8	11742.7	11825.8	11825.8
25°	11510.2	10531.9	11535.9	11612.9	11641.6
27.5°	11237.0	10858.0	11277.7	11341.1	11392.5
30°	10966.7	10904.8	11002.9	11084.5	11144.9
32.5°	10681.4	10657.2	10734.2	10820.3	10897.3
35°	10356.8	10350.7	10471.5	10541.0	10593.8
37.5°	10051.8	10030.7	10142.4	10239.0	10279.8
40°	9686.5	9686.5	9792.1	9890.3	9932.5
42.5°	9269.8	9328.6	9410.2	9511.3	8566.2
45°	8871.2	8898.4	9044.8	8010.7	5620.7
47.5°	8487.7	8522.5	8661.3	5149.7	5290.1
50°	7972.9	8129.9	8238.6	5134.6	5445.6
52.5°	7597.0	7664.9	6916.1	5083.3	5258.4
55°	6964.4	7192.4	4420.5	5025.9	5507.5
57.5°	6423.9	6590.0	4346.5	5149.7	5448.6
60°	5791.3	6045.0	3972.1	4968.5	4396.3
62.5°	5184.4	5426.0	4147.2	3910.2	3723.0
65°	4586.6	4856.8	4031.0	3101.0	2273.7
67.5°	3931.3	3679.2	3215.7	2184.6	2299.3
70°	3277.6	2569.6	2471.4	2442.8	2255.5
72.5°	2605.8	1875.1	1641.1	1832.8	1312.0
75°	1976.2	1937.0	1700.0	1111.2	1183.6
77.5°	1370.8	1398.0	910.4	1084.0	899.8
80°	913.4	791.1	824.3	691.5	682.4
82.5°	632.6	646.2	542.0	525.4	532.9
85°	439.3	391.0	382.0	365.4	362.3
87.5°	146.4	170.6	158.5	143.4	152.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)