

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-CLI-UNV-L850-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 (P23766)
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-CLI-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

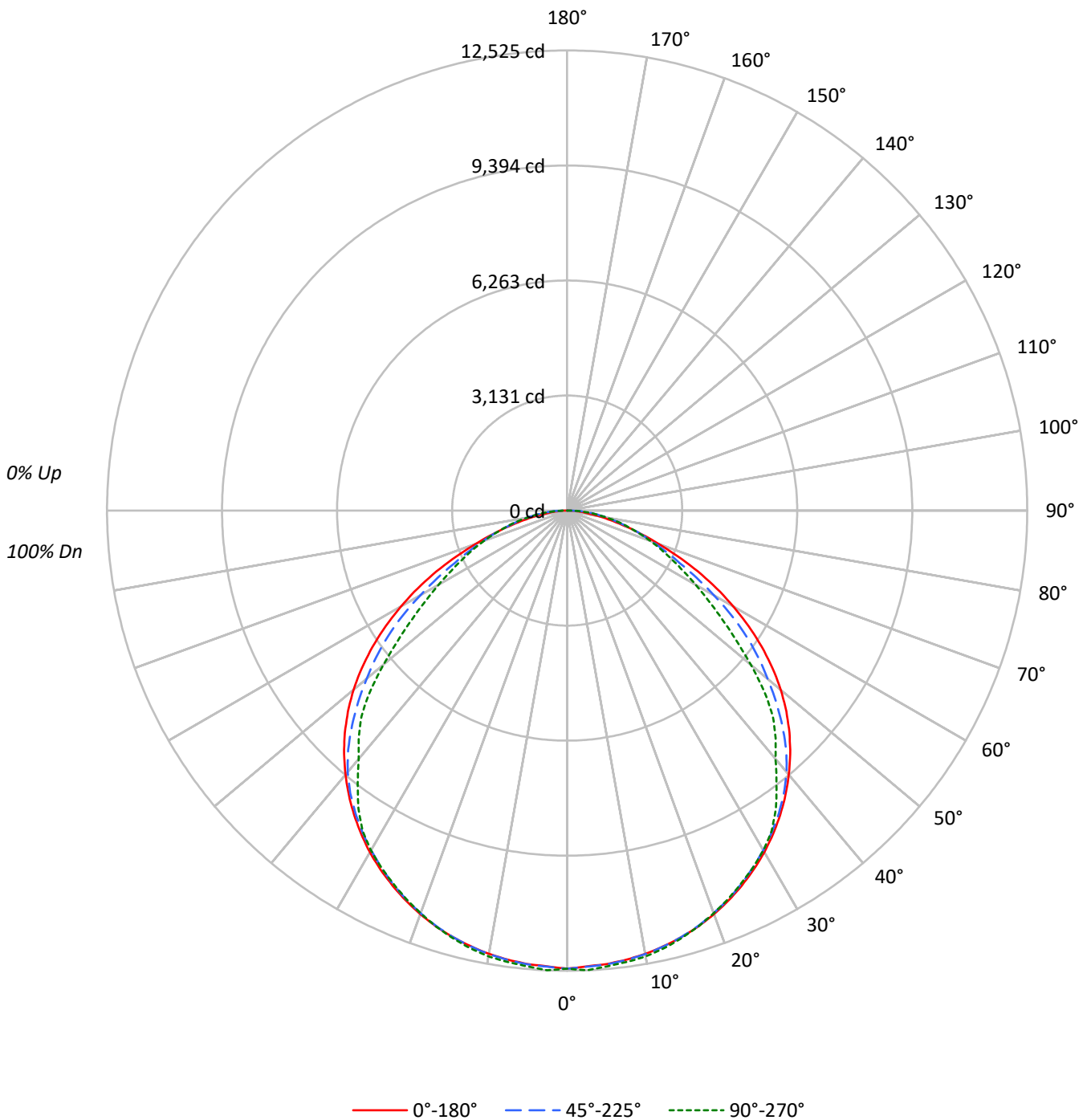
Lumens per Lamp: N/A
Luminaire Lumens: 33497.0 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16775	16775	16775
5°	16730	16742	16817
10°	16740	16748	16836
15°	16742	16740	16779
20°	16737	16699	16703
25°	16712	16650	16630
30°	16685	16585	16594
35°	16607	16504	16270
40°	16488	16320	15497
45°	16279	15758	15069
50°	15887	14919	13647
55°	15164	13953	12067
60°	14073	12450	10883
65°	12508	10779	10007
70°	10381	9633	9433
75°	8396	8816	8925
80°	6668	8431	8396
85°	5223	9057	8642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1182.4	3.5
10°-20°	3401.0	10.2
20°-30°	5185.9	15.5
30°-40°	6274.2	18.7
40°-50°	6355.2	19.0
50°-60°	5252.7	15.7
60°-70°	3469.3	10.4
70°-80°	1809.0	5.4
80°-90°	567.1	1.7
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°	9769.3	29.2
0°-40°	16043.5	47.9
0°-60°	27651.5	82.5
0°-90°	33497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12468	12468	12468	12468	12468	
5°	12387	12462	12396	12450	12451	###
15°	12019	12080	12017	12055	12046	3394
25°	11257	11302	11215	11243	11202	5191
35°	10110	10124	10048	10034	9905	6324
45°	8555	8533	8281	8024	7919	6588
55°	6464	6369	5948	5370	5144	5762
65°	3929	3815	3386	3166	3143	3881
75°	1615	1643	1696	1718	1717	1759
85°	338	436	587	582	560	411
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12467.8	12467.8	12467.8	12467.8	12467.8
2.5°	12415.4	12488.7	12427.4	12481.2	12524.6
5°	12386.9	12461.8	12395.9	12449.8	12451.3
7.5°	12331.6	12406.4	12339.1	12392.9	12391.4
10°	12252.2	12322.6	12258.2	12322.6	12322.6
12.5°	12144.5	12213.3	12150.5	12210.3	12201.4
15°	12018.8	12080.1	12017.3	12054.7	12045.7
17.5°	11870.6	11926.0	11855.6	11887.0	11869.1
20°	11689.5	11740.4	11662.5	11702.9	11665.5
22.5°	11485.9	11533.8	11454.5	11484.4	11442.5
25°	11256.9	11301.8	11215.0	11243.4	11201.5
27.5°	11010.0	11050.4	10953.1	10987.5	10954.6
30°	10739.0	10758.5	10674.7	10719.6	10680.7
32.5°	10436.7	10448.7	10375.3	10415.8	10349.9
35°	10110.4	10123.9	10047.6	10034.1	9905.4
37.5°	9761.7	9767.7	9695.8	9574.6	9362.1
40°	9387.5	9384.5	9291.7	9011.8	8823.2
42.5°	8987.9	8986.4	8823.2	8504.4	8396.7
45°	8555.3	8532.9	8281.4	8024.0	7919.2
47.5°	8091.3	8067.4	7715.7	7510.6	7272.6
50°	7589.9	7548.0	7127.4	6847.5	6519.8
52.5°	7049.6	6985.2	6557.2	6105.2	5795.3
55°	6464.4	6368.6	5948.0	5370.3	5144.3
57.5°	5855.2	5713.0	5304.4	4741.6	4557.5
60°	5229.6	5070.9	4626.4	4163.9	4044.2
62.5°	4586.0	4428.8	3975.3	3626.6	3560.7
65°	3928.9	3815.2	3385.6	3165.6	3143.1
67.5°	3255.4	3215.0	2887.2	2774.9	2766.0
70°	2638.7	2631.3	2448.7	2391.8	2397.8
72.5°	2108.9	2099.9	2073.0	2044.5	2046.0
75°	1615.0	1643.4	1695.8	1718.2	1716.8
77.5°	1204.9	1263.2	1374.0	1418.9	1411.4
80°	860.6	947.4	1088.1	1130.0	1083.6
82.5°	573.2	664.5	830.7	836.7	799.3
85°	338.3	435.5	586.7	582.2	559.8
87.5°	167.6	261.9	351.7	336.8	321.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)