

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-CLWG-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 (P33385)
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-CLWG-UNV-L850-ED3-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

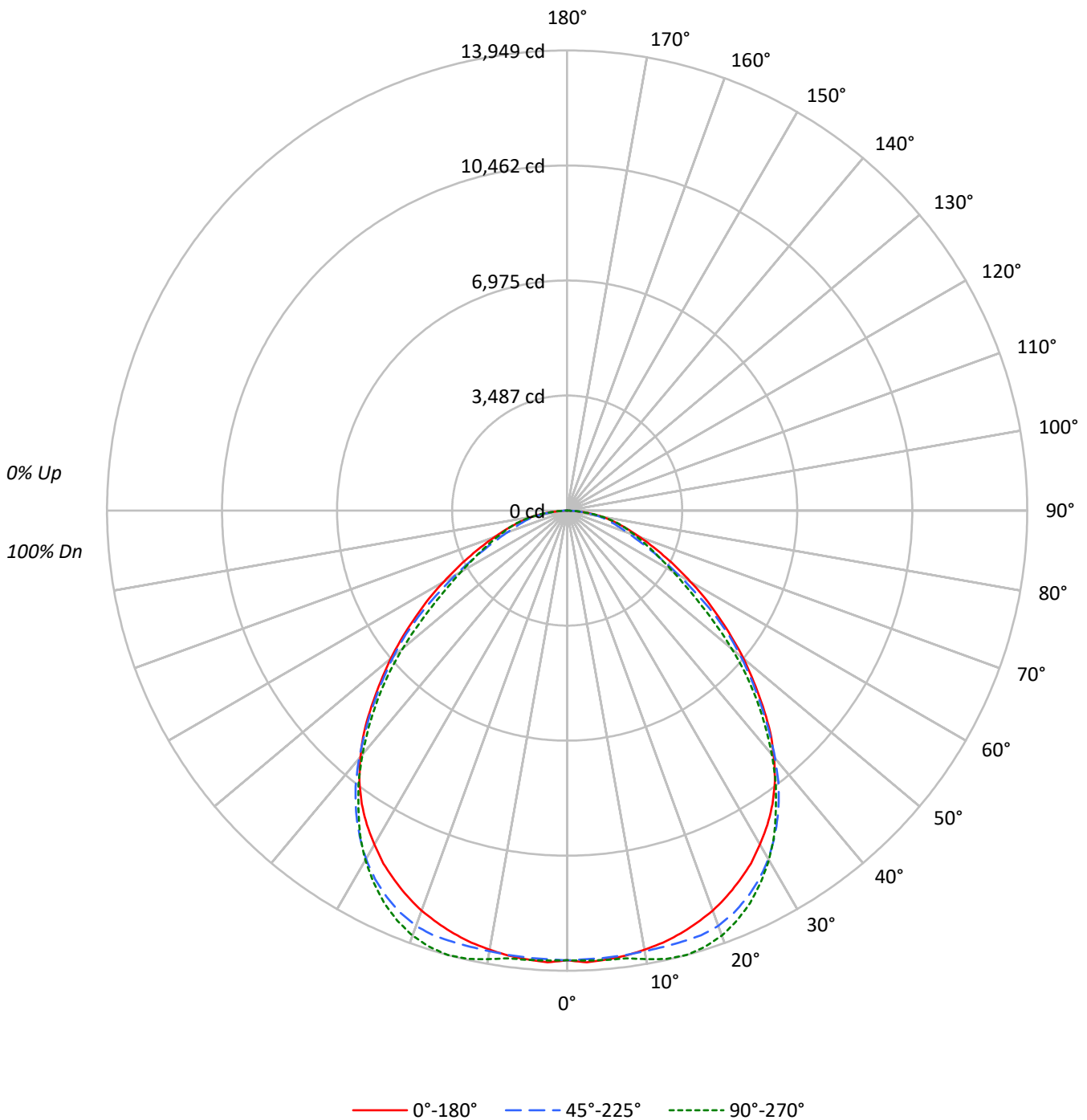
Lumens per Lamp: N/A
Luminaire Lumens: 33998.0 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	18342	18342	18342
5°	18450	18374	18464
10°	18466	18529	18860
15°	18490	18837	19430
20°	18477	19182	19630
25°	18364	19199	19481
30°	18153	18945	19005
35°	17829	18331	18112
40°	17126	17231	16959
45°	15957	15790	15469
50°	14610	14374	13638
55°	13123	12636	11531
60°	11638	10456	9954
65°	10254	8687	9034
70°	9171	7539	8604
75°	8591	7330	8701
80°	8364	7411	8282
85°	6677	5862	6079



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1298.6	3.8
10°-20°	3825.1	11.3
20°-30°	5884.5	17.3
30°-40°	6867.5	20.2
40°-50°	6381.8	18.8
50°-60°	4730.4	13.9
60°-70°	2891.8	8.5
70°-80°	1647.1	4.8
80°-90°	471.1	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°	11008.2	32.4
0°-40°	17875.8	52.6
0°-60°	28988.0	85.3
0°-90°	33998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13632	13632	13632	13632	13632	
5°	13660	13597	13604	13594	13671	###
15°	13274	13266	13523	13790	13949	3747
25°	12370	12465	12932	13042	13122	5698
35°	10854	10939	11160	11069	11027	6763
45°	8386	8435	8298	8168	8129	6462
55°	5594	5454	5387	5004	4916	5020
65°	3221	2926	2729	2802	2838	3223
75°	1653	1551	1410	1607	1674	1769
85°	432	422	380	394	394	499
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13632.2	13632.2	13632.2	13632.2	13632.2
2.5°	13706.1	13628.7	13614.6	13583.0	13653.3
5°	13660.3	13597.1	13604.1	13593.5	13670.9
7.5°	13607.6	13561.9	13590.0	13586.5	13688.5
10°	13516.2	13491.6	13561.9	13639.2	13804.5
12.5°	13414.2	13389.6	13544.3	13741.2	13920.5
15°	13273.6	13266.5	13523.2	13790.4	13948.7
17.5°	13097.8	13108.3	13498.6	13727.2	13867.8
20°	12904.4	12921.9	13396.6	13583.0	13709.6
22.5°	12654.7	12714.5	13199.7	13354.4	13452.9
25°	12369.9	12464.8	12932.5	13041.5	13122.4
27.5°	12064.0	12158.9	12602.0	12658.2	12703.9
30°	11684.3	11817.9	12194.1	12201.1	12232.8
32.5°	11297.5	11417.0	11705.4	11673.7	11680.7
35°	10854.4	10938.8	11160.3	11068.9	11026.7
37.5°	10344.6	10390.3	10530.9	10393.8	10386.8
40°	9750.4	9810.1	9810.1	9620.3	9655.4
42.5°	9117.4	9138.5	9050.6	8871.3	8899.4
45°	8386.1	8435.3	8298.2	8168.1	8129.4
47.5°	7661.7	7711.0	7566.8	7415.6	7348.8
50°	6979.6	6955.0	6867.1	6610.4	6515.5
52.5°	6272.9	6195.5	6160.3	5784.1	5675.1
55°	5594.2	5453.6	5386.8	5003.5	4915.6
57.5°	4964.8	4711.7	4585.1	4286.2	4251.1
60°	4324.9	4040.1	3885.4	3692.0	3699.0
62.5°	3744.7	3445.9	3259.5	3203.2	3227.9
65°	3220.8	2925.5	2728.6	2802.4	2837.6
67.5°	2746.1	2503.5	2282.0	2454.3	2489.5
70°	2331.2	2137.8	1916.3	2169.5	2187.1
72.5°	1986.6	1828.4	1642.1	1881.2	1919.8
75°	1652.6	1550.6	1410.0	1606.9	1673.7
77.5°	1360.8	1279.9	1199.0	1318.6	1392.4
80°	1079.5	998.6	956.4	1019.7	1068.9
82.5°	763.0	710.3	668.1	713.8	738.4
85°	432.5	421.9	379.7	393.8	393.8
87.5°	98.5	112.5	126.6	116.0	98.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)