

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-A-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 (P23761)
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-A-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

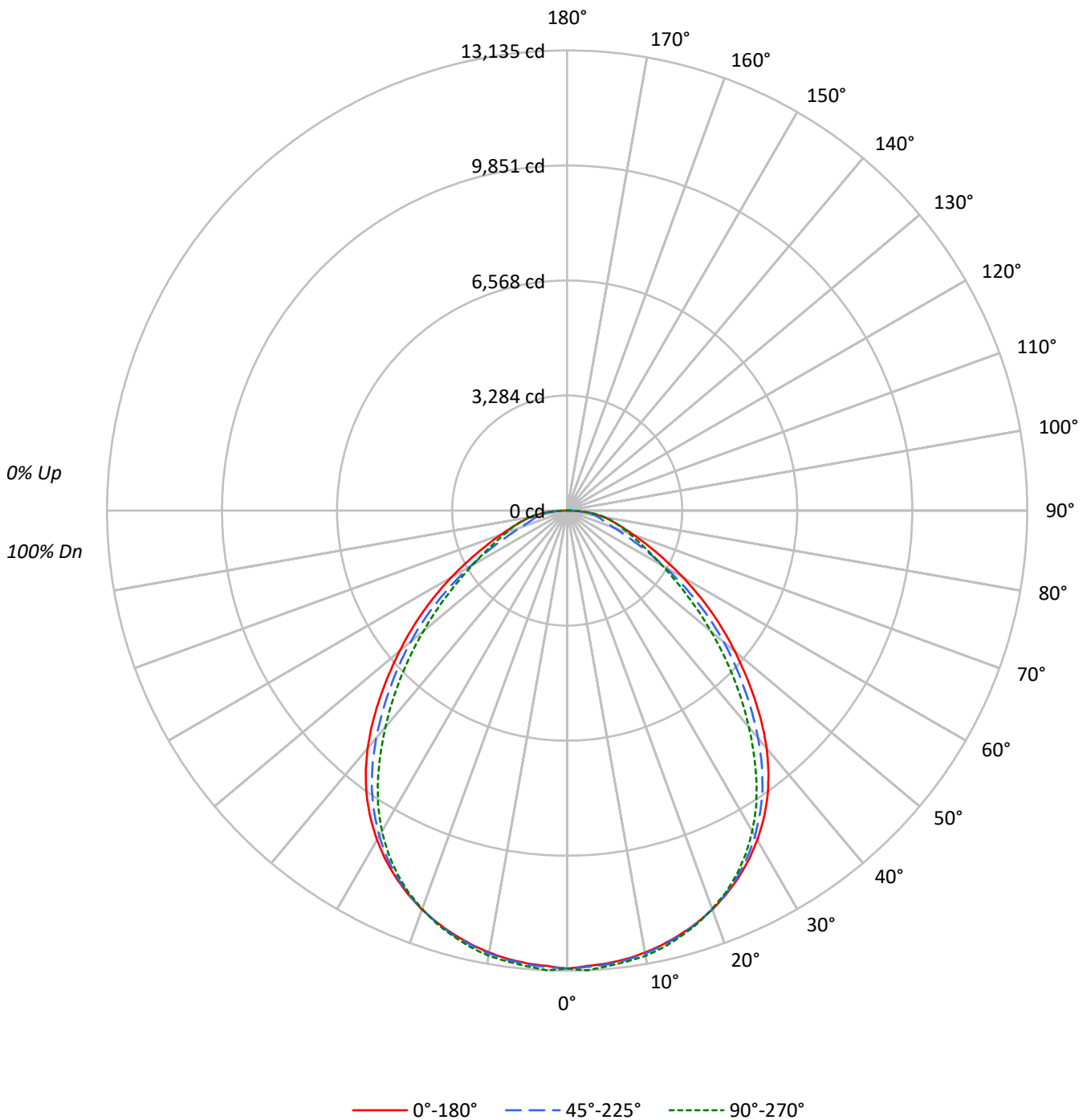
Lumens per Lamp: N/A
Luminaire Lumens: 30028.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17588	17588	17588
5°	17526	17565	17637
10°	17501	17541	17629
15°	17442	17477	17518
20°	17351	17338	17326
25°	17163	17104	17007
30°	16866	16662	16420
35°	16376	15964	15473
40°	15562	14894	14179
45°	14376	13574	12752
50°	13068	12223	11217
55°	11751	10582	9697
60°	10282	8648	8414
65°	8866	6801	7594
70°	7904	5550	7319
75°	7572	5418	7648
80°	8190	6408	8522
85°	9195	7716	9286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1238.9	4.1
10°-20°	3545.6	11.8
20°-30°	5303.8	17.7
30°-40°	6051.2	20.2
40°-50°	5508.3	18.3
50°-60°	4044.7	13.5
60°-70°	2388.2	8.0
70°-80°	1368.6	4.6
80°-90°	578.7	1.9
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°	10088.3	33.6
0°-40°	16139.5	53.7
0°-60°	25692.5	85.6
0°-90°	30028.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30028.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13072	13072	13072	13072	13072	
5°	12976	13057	13005	13057	13058	###
15°	12522	12591	12547	12591	12576	3533
25°	11561	11602	11521	11516	11456	5322
35°	9970	9921	9719	9553	9420	6212
45°	7555	7511	7134	6814	6702	5823
55°	5009	4778	4511	4184	4134	4480
65°	2785	2431	2136	2285	2385	2802
75°	1456	1249	1042	1359	1471	1570
85°	596	550	500	590	602	623
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13071.7	13071.7	13071.7	13071.7	13071.7
2.5°	13011.3	13086.4	13039.3	13090.9	13135.1
5°	12975.9	13057.0	13005.4	13057.0	13058.4
7.5°	12911.0	12986.2	12936.1	12992.1	12986.2
10°	12809.3	12884.5	12838.8	12899.2	12903.6
12.5°	12679.6	12751.8	12704.6	12773.9	12762.1
15°	12521.8	12591.1	12546.9	12591.1	12576.4
17.5°	12336.1	12399.5	12342.0	12390.6	12365.6
20°	12117.9	12171.0	12109.0	12154.7	12100.2
22.5°	11857.0	11904.1	11839.3	11864.3	11808.3
25°	11560.6	11601.9	11520.8	11516.4	11456.0
27.5°	11230.4	11252.5	11149.3	11114.0	11044.7
30°	10856.0	10861.9	10724.8	10658.4	10568.5
32.5°	10435.8	10421.1	10245.7	10146.9	10036.3
35°	9970.0	9921.3	9719.4	9552.8	9420.1
37.5°	9443.7	9367.0	9125.3	8879.1	8752.3
40°	8859.9	8770.0	8479.6	8174.4	8072.7
42.5°	8224.5	8147.9	7805.9	7487.4	7387.2
45°	7555.3	7511.0	7133.6	6813.7	6701.7
47.5°	6886.0	6853.5	6485.0	6159.2	6023.6
50°	6243.2	6172.5	5839.3	5482.5	5358.7
52.5°	5619.6	5475.2	5181.8	4816.2	4724.8
55°	5009.3	4777.9	4511.0	4183.8	4133.6
57.5°	4404.9	4105.6	3846.2	3601.5	3600.0
60°	3821.1	3479.1	3213.7	3085.5	3126.8
62.5°	3274.2	2923.3	2635.9	2644.7	2719.9
65°	2784.8	2430.9	2136.1	2285.0	2385.2
67.5°	2364.6	2027.0	1727.8	2004.9	2100.7
70°	2009.3	1704.2	1410.8	1757.2	1860.4
72.5°	1710.1	1453.6	1189.7	1550.9	1655.5
75°	1456.5	1248.6	1042.3	1359.2	1471.2
77.5°	1250.1	1065.8	934.6	1176.4	1292.9
80°	1057.0	894.8	827.0	999.5	1099.8
82.5°	837.3	725.3	685.5	812.3	863.9
85°	595.6	549.9	499.8	589.7	601.5
87.5°	327.3	339.1	280.1	339.1	340.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)