

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-A-UNV-L835-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-LD5-36HE-W-A-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

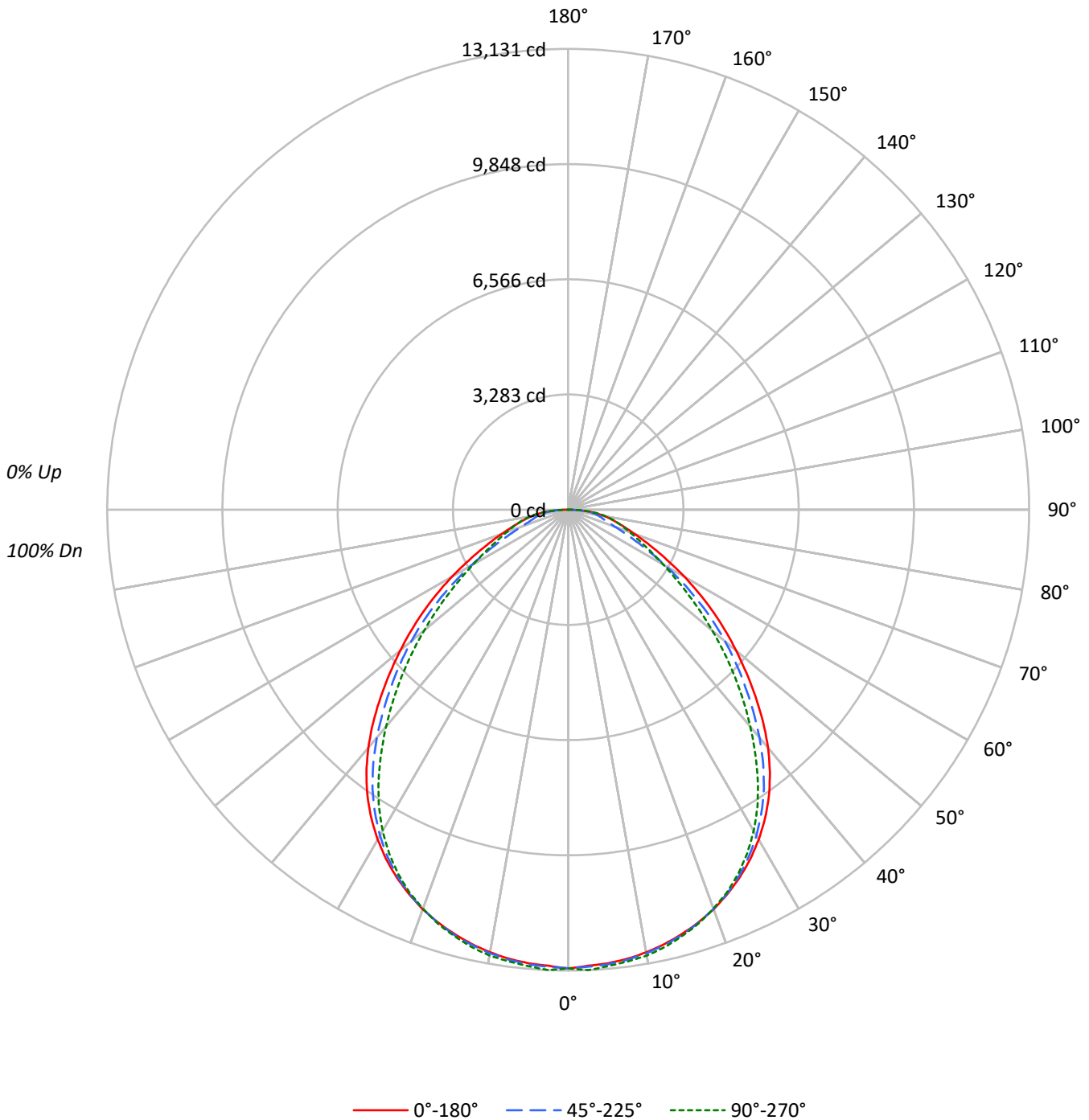
Lumens per Lamp: N/A
Luminaire Lumens: 30019.0 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17583	17583	17583
5°	17520	17560	17632
10°	17495	17536	17624
15°	17437	17472	17513
20°	17346	17333	17320
25°	17158	17099	17002
30°	16861	16657	16415
35°	16371	15960	15468
40°	15557	14889	14175
45°	14372	13570	12748
50°	13064	12219	11214
55°	11747	10579	9694
60°	10280	8646	8411
65°	8863	6799	7592
70°	7902	5548	7317
75°	7570	5416	7646
80°	8188	6406	8519
85°	9192	7713	9283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1238.5	4.1
10°-20°	3544.5	11.8
20°-30°	5302.2	17.7
30°-40°	6049.4	20.2
40°-50°	5506.6	18.3
50°-60°	4043.5	13.5
60°-70°	2387.5	8.0
70°-80°	1368.2	4.6
80°-90°	578.5	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°	10085.2	33.6
0°-40°	16134.6	53.7
0°-60°	25684.8	85.6
0°-90°	30019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13068	13068	13068	13068	13068	
5°	12972	13053	13002	13053	13054	###
15°	12518	12587	12543	12587	12573	3532
25°	11557	11598	11517	11513	11452	5320
35°	9967	9918	9716	9550	9417	6210
45°	7553	7509	7132	6812	6700	5821
55°	5008	4776	4510	4182	4132	4478
65°	2784	2430	2136	2284	2384	2801
75°	1456	1248	1042	1359	1471	1569
85°	595	550	500	590	601	623
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13067.8	13067.8	13067.8	13067.8	13067.8
2.5°	13007.4	13082.5	13035.4	13086.9	13131.1
5°	12972.0	13053.0	13001.5	13053.0	13054.5
7.5°	12907.1	12982.3	12932.2	12988.2	12982.3
10°	12805.4	12880.6	12834.9	12895.3	12899.8
12.5°	12675.8	12748.0	12700.8	12770.1	12758.3
15°	12518.1	12587.3	12543.1	12587.3	12572.6
17.5°	12332.4	12395.7	12338.3	12386.9	12361.8
20°	12114.3	12167.3	12105.4	12151.1	12096.6
22.5°	11853.4	11900.6	11835.7	11860.8	11804.8
25°	11557.2	11598.4	11517.4	11513.0	11452.5
27.5°	11227.1	11249.2	11146.0	11110.6	11041.4
30°	10852.7	10858.6	10721.6	10655.2	10565.3
32.5°	10432.7	10418.0	10242.6	10143.8	10033.3
35°	9967.0	9918.4	9716.5	9549.9	9417.3
37.5°	9440.9	9364.2	9122.5	8876.4	8749.7
40°	8857.3	8767.4	8477.0	8172.0	8070.3
42.5°	8222.1	8145.4	7803.5	7485.2	7385.0
45°	7553.0	7508.8	7131.5	6811.7	6699.7
47.5°	6883.9	6851.5	6483.0	6157.3	6021.8
50°	6241.3	6170.6	5837.5	5480.9	5357.1
52.5°	5618.0	5473.5	5180.2	4814.8	4723.4
55°	5007.8	4776.4	4509.7	4182.5	4132.4
57.5°	4403.6	4104.4	3845.0	3600.4	3598.9
60°	3820.0	3478.1	3212.8	3084.6	3125.8
62.5°	3273.2	2922.5	2635.1	2643.9	2719.1
65°	2783.9	2430.2	2135.5	2284.3	2384.5
67.5°	2363.9	2026.4	1727.2	2004.3	2100.1
70°	2008.7	1703.7	1410.4	1756.7	1859.9
72.5°	1709.6	1453.1	1189.3	1550.4	1655.0
75°	1456.1	1248.3	1041.9	1358.8	1470.8
77.5°	1249.7	1065.5	934.4	1176.1	1292.5
80°	1056.7	894.6	826.8	999.2	1099.4
82.5°	837.1	725.1	685.3	812.0	863.6
85°	595.4	549.7	499.6	589.5	601.3
87.5°	327.2	339.0	280.0	339.0	340.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)