

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-N-CLI-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLI-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

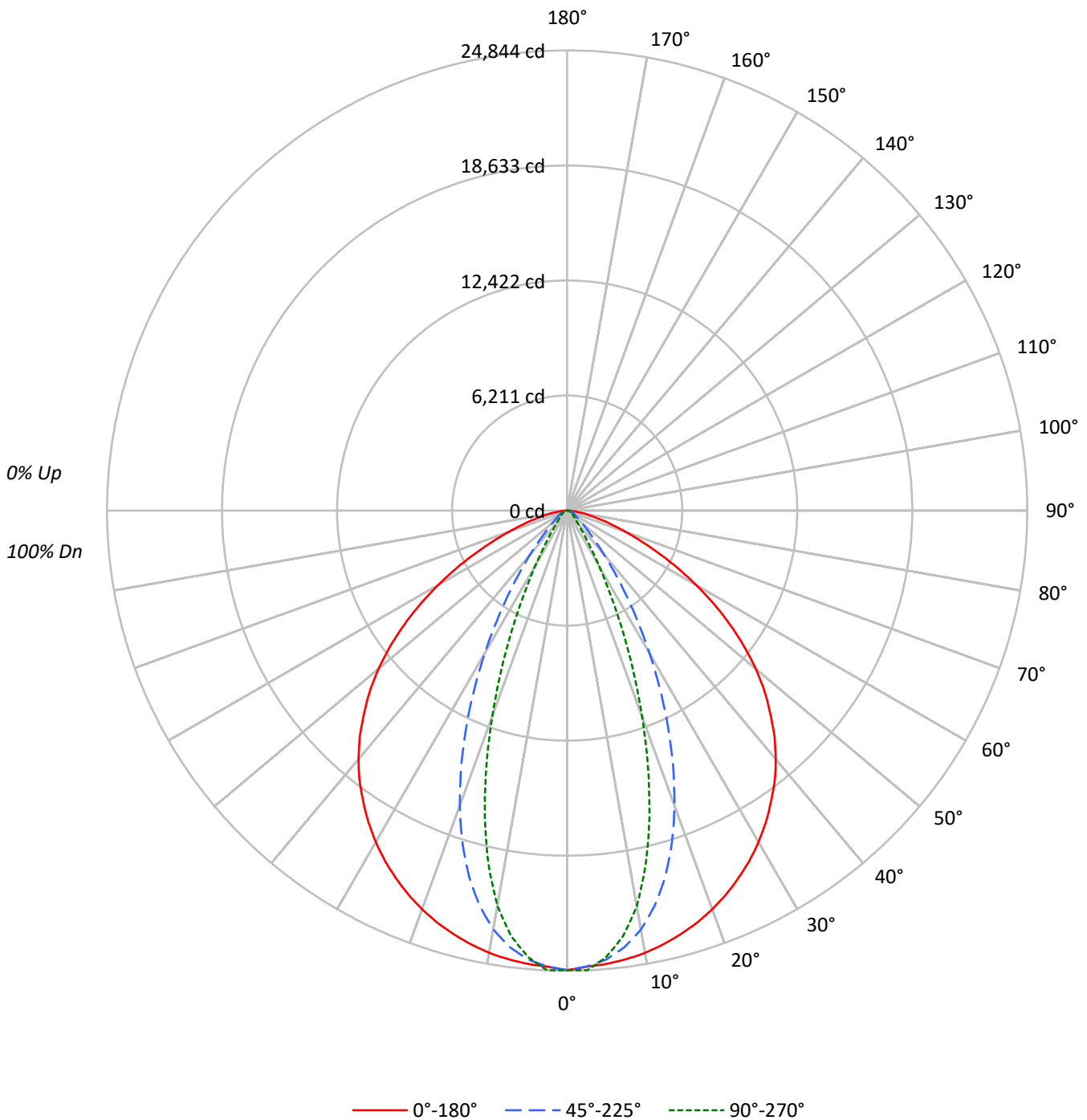
Lumens per Lamp: N/A
Luminaire Lumens: 27162.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33382	33382	33382
5°	33182	32851	32678
10°	33126	31364	29596
15°	32993	28509	23902
20°	32795	24259	16941
25°	32501	19129	10236
30°	32107	13806	5260
35°	31527	9026	2627
40°	30779	5421	1533
45°	29500	3237	1146
50°	27824	2117	963
55°	25183	1606	840
60°	21641	1368	767
65°	17407	1248	724
70°	13114	1337	720
75°	9646	1271	740
80°	7057	1265	810
85°	5286	1533	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2284.9	8.4
10°-20°	5684.4	20.9
20°-30°	6296.3	23.2
30°-40°	5044.5	18.6
40°-50°	3601.1	13.3
50°-60°	2313.0	8.5
60°-70°	1253.5	4.6
70°-80°	535.8	2.0
80°-90°	148.6	0.5
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°	14265.6	52.5
0°-40°	19310.0	71.1
0°-60°	25224.2	92.9
0°-90°	27162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24810	24810	24810	24810	24810	
5°	24568	24659	24323	24246	24195	###
15°	23685	22944	20467	18087	17159	6683
25°	21892	19304	12885	8395	6895	10085
35°	19194	13883	5495	2216	1600	12001
45°	15504	8014	1701	724	602	11950
55°	10735	3583	685	421	358	9567
65°	5468	1471	392	270	227	5475
75°	1856	538	244	170	142	2062
85°	342	142	99	82	68	418
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24810.5	24810.5	24810.5	24810.5	24810.5
2.5°	24647.2	24801.4	24635.4	24738.7	24844.5
5°	24567.5	24658.9	24323.1	24246.0	24195.0
7.5°	24428.9	24402.8	23771.6	23362.6	23165.3
10°	24246.0	24034.3	22956.2	22057.1	21662.5
12.5°	23984.6	23548.2	21852.0	20273.4	19604.3
15°	23685.4	22944.4	20466.8	18087.1	17159.3
17.5°	23327.3	22238.8	18811.1	15742.8	14518.3
20°	22903.9	21386.8	16942.4	13252.1	11831.6
22.5°	22430.9	20404.1	14941.7	10769.2	9245.5
25°	21892.5	19303.8	12884.9	8394.8	6894.6
27.5°	21311.0	18081.9	10839.7	6272.5	4904.3
30°	20665.4	16759.5	8886.1	4522.8	3385.9
32.5°	19961.1	15353.4	7071.0	3180.7	2315.6
35°	19194.0	13883.2	5495.0	2216.3	1599.5
37.5°	18408.6	12383.0	4150.3	1566.8	1147.4
40°	17523.9	10888.1	3086.6	1147.4	872.9
42.5°	16573.9	9421.9	2284.3	883.4	707.0
45°	15503.6	8014.5	1701.4	724.0	602.4
47.5°	14466.1	6702.5	1292.4	616.8	524.0
50°	13292.6	5518.5	1011.4	538.4	460.0
52.5°	12047.2	4477.0	820.7	474.4	405.1
55°	10735.2	3583.2	684.8	420.8	358.1
57.5°	9406.2	2838.3	585.4	375.0	318.9
60°	8041.9	2269.9	508.3	335.8	284.9
62.5°	6710.3	1815.1	444.3	301.9	254.8
65°	5467.6	1471.4	392.0	270.5	227.4
67.5°	4318.9	1163.0	365.9	243.1	205.2
70°	3333.6	905.6	339.8	216.9	182.9
72.5°	2526.0	695.2	300.6	193.4	162.0
75°	1855.6	538.4	244.4	169.9	142.4
77.5°	1327.7	414.2	198.6	147.7	122.8
80°	910.8	308.4	163.3	126.8	104.5
82.5°	592.0	218.2	132.0	104.5	86.2
85°	342.4	142.4	99.3	82.3	68.0
87.5°	147.7	78.4	68.0	61.4	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)