

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-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLWG-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

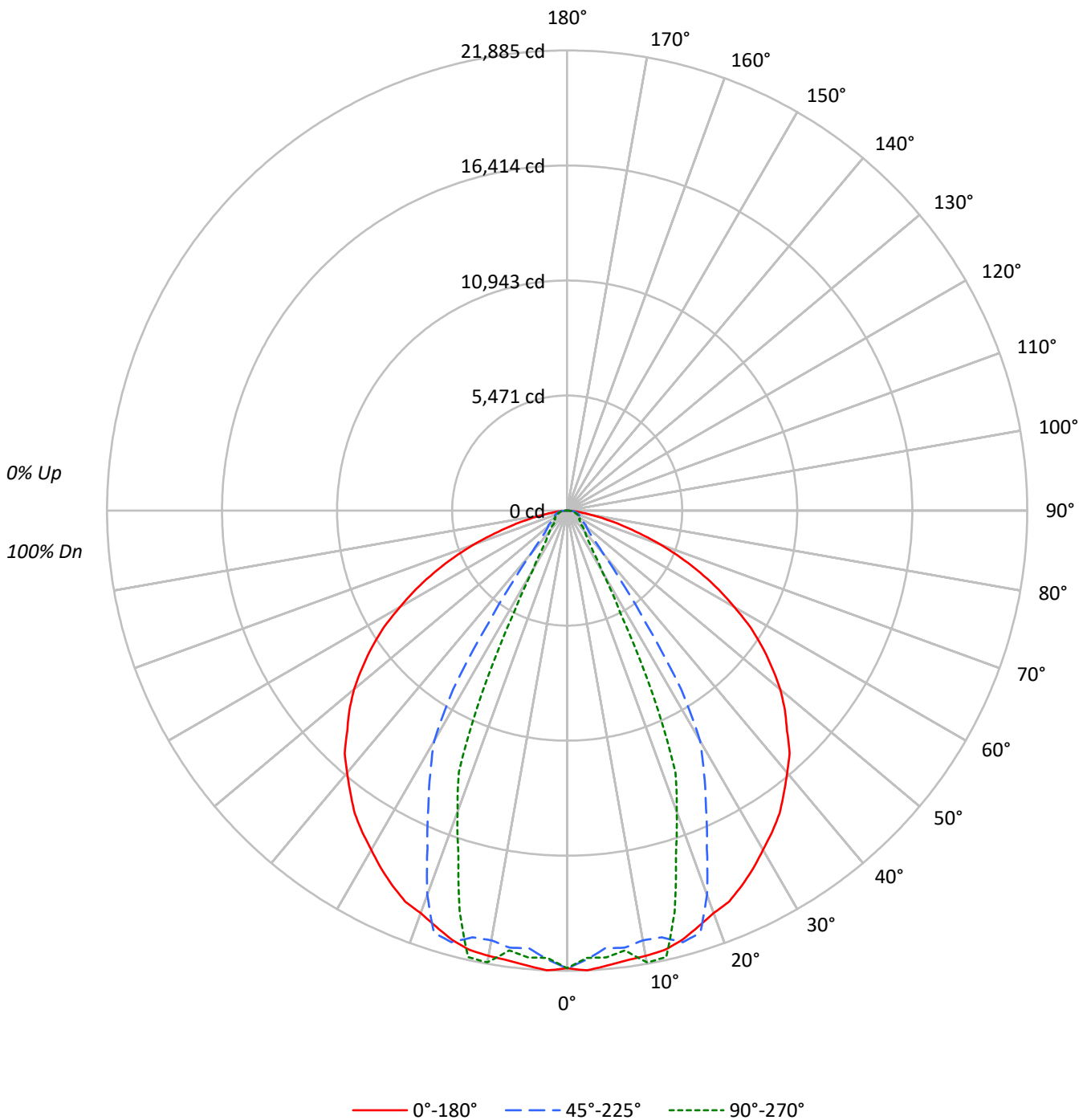
Lumens per Lamp: N/A
Luminaire Lumens: 29262.0 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29287	29287	29287
5°	29335	28218	28812
10°	29378	28354	29809
15°	29443	29596	27508
20°	29164	27837	21834
25°	29207	23207	14262
30°	28945	19660	5123
35°	28914	10650	2882
40°	28587	4643	2257
45°	28145	2869	1770
50°	27706	2500	1670
55°	26617	2168	1635
60°	24696	1942	1757
65°	22198	2195	1919
70°	18617	2360	1980
75°	13918	2692	2143
80°	8741	3126	2444
85°	5820	3918	3578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2017.5	6.9
10°-20°	5696.9	19.5
20°-30°	6975.9	23.8
30°-40°	5478.3	18.7
40°-50°	4062.5	13.9
50°-60°	2473.1	8.5
60°-70°	1481.5	5.1
70°-80°	812.8	2.8
80°-90°	263.6	0.9
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°	14690.3	50.2
0°-40°	20168.5	68.9
0°-60°	26704.1	91.3
0°-90°	29262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21766	21766	21766	21766	21766	
5°	21720	21128	20892	21123	21332	###
15°	21137	20558	21247	20389	19748	5951
25°	19673	19735	15632	12261	9607	9056
35°	17603	16013	6484	2170	1754	10984
45°	14791	10621	1508	1143	930	11438
55°	11347	2927	924	782	697	10098
65°	6972	863	690	648	603	6889
75°	2677	544	518	450	412	2899
85°	377	296	254	233	232	460
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21766.5	21766.5	21766.5	21766.5	21766.5
2.5°	21885.4	21590.5	21364.6	21238.4	21289.8
5°	21719.6	21128.4	20892.2	21122.6	21332.3
7.5°	21575.8	20697.1	20964.1	20984.7	21094.7
10°	21502.5	20656.1	20752.9	21209.1	21817.9
12.5°	21405.7	20751.4	20785.2	21407.1	21750.4
15°	21137.2	20557.8	21247.2	20389.1	19748.0
17.5°	20745.5	20106.0	21053.6	18062.5	17191.1
20°	20368.5	19614.5	19441.4	16089.5	15248.9
22.5°	20125.0	19539.7	17367.2	14336.5	13468.0
25°	19673.2	19734.8	15631.8	12260.7	9607.0
27.5°	19175.9	19275.7	14097.3	8176.8	5504.0
30°	18630.2	18744.6	12653.9	4832.1	3297.7
32.5°	18135.9	17490.4	10105.8	3014.6	2292.8
35°	17603.3	16013.2	6483.9	2169.6	1754.5
37.5°	16933.0	14461.2	4104.5	1716.3	1472.8
40°	16275.8	13067.6	2643.4	1465.5	1285.0
42.5°	15661.1	11918.9	1923.2	1280.6	1160.4
45°	14791.2	10620.7	1508.0	1142.8	930.0
47.5°	14038.7	9098.0	1318.8	966.7	802.4
50°	13236.3	6956.3	1194.1	859.6	798.0
52.5°	12284.2	4550.5	1103.1	823.0	745.2
55°	11346.8	2926.6	924.2	781.9	696.8
57.5°	10334.6	1855.7	815.6	758.4	727.6
60°	9177.2	1251.3	721.7	718.8	652.8
62.5°	8106.3	1028.3	696.8	689.5	617.6
65°	6972.4	862.6	689.5	648.4	602.9
67.5°	5839.9	739.3	623.5	592.6	553.0
70°	4732.4	676.3	600.0	586.8	503.2
72.5°	3594.0	557.4	532.5	497.3	418.1
75°	2677.2	544.2	517.8	450.4	412.2
77.5°	1811.7	501.7	470.9	403.4	372.6
80°	1128.1	460.6	403.4	353.5	315.4
82.5°	670.4	384.3	331.5	291.9	267.0
85°	377.0	296.3	253.8	233.2	231.8
87.5°	80.7	107.1	85.1	80.7	57.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)