

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-CL-UNV-L740-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 (P23768)
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-CL-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

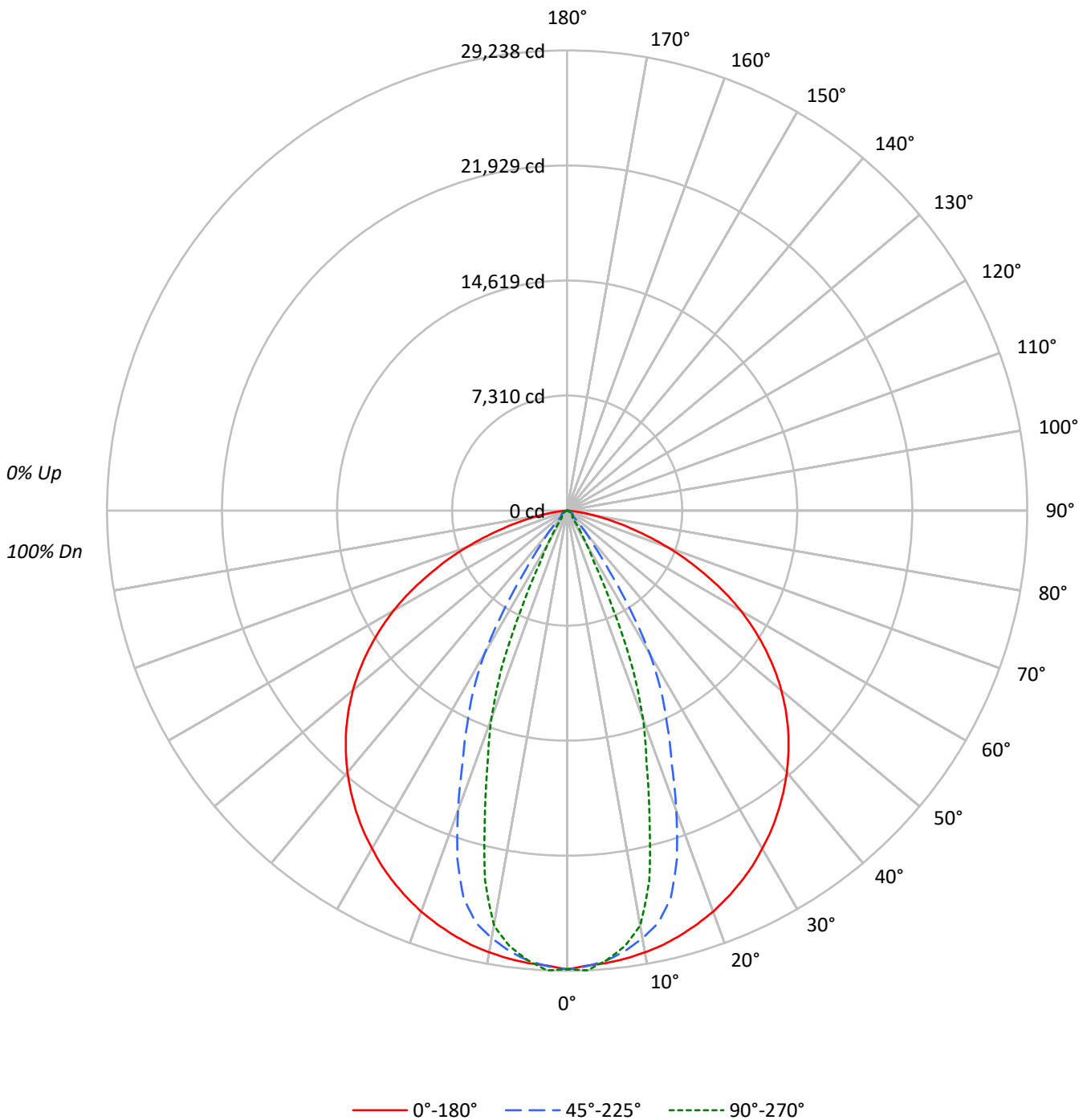
Lumens per Lamp: N/A
Luminaire Lumens: 31166.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92					90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83					81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75					73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68					66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62					60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57					55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53					51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49					47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46					44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43					41				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39209	39209	39209
5°	38968	38765	38736
10°	38942	37693	36581
15°	38897	35445	28127
20°	38821	29006	20175
25°	38700	22348	10252
30°	38517	16310	3730
35°	38379	7490	1298
40°	38143	3400	896
45°	37804	1268	908
50°	37201	921	955
55°	36100	969	728
60°	34305	1035	642
65°	31110	788	522
70°	26674	569	481
75°	20388	504	457
80°	12756	473	497
85°	4029	553	667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2713.0	8.7
10°-20°	6834.3	21.9
20°-30°	7442.9	23.9
30°-40°	5567.6	17.9
40°-50°	4003.3	12.8
50°-60°	2458.6	7.9
60°-70°	1414.7	4.5
70°-80°	631.4	2.0
80°-90°	100.2	0.3
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°	16990.2	54.5
0°-40°	22557.8	72.4
0°-60°	29019.7	93.1
0°-90°	31166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29141	29141	29141	29141	29141	
5°	28852	28987	28701	28728	28680	###
15°	27924	27389	25446	21854	20192	7883
25°	26068	24198	15054	9658	6906	12016
35°	23366	16758	4560	1341	790	14616
45°	19867	9415	667	494	477	15305
55°	15389	1956	413	400	310	13721
65°	9772	215	248	206	164	9673
75°	3922	130	97	100	88	4256
85°	261	25	36	46	43	520
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29141.0	29141.0	29141.0	29141.0	29141.0
2.5°	28938.2	29127.6	28968.1	29111.2	29238.0
5°	28851.7	28987.4	28701.1	28728.0	28680.3
7.5°	28702.6	28735.4	28218.0	28018.2	27921.2
10°	28502.8	28414.8	27588.7	27113.0	26774.5
12.5°	28250.8	27960.0	26805.8	25107.3	24094.8
15°	27924.2	27388.9	25445.8	21853.5	20192.3
17.5°	27535.0	26792.4	23194.1	18213.5	16776.0
20°	27113.0	26133.3	20258.0	15486.1	14090.4
22.5°	26614.9	25290.8	17362.0	12879.5	10963.3
25°	26067.7	24197.7	15053.7	9658.5	6905.7
27.5°	25477.2	22755.7	12916.8	5923.0	3734.0
30°	24791.2	21000.6	10498.0	3323.9	2400.8
32.5°	24121.7	18954.6	7499.2	2214.4	1534.4
35°	23365.6	16758.1	4560.1	1340.6	790.3
37.5°	22564.8	14761.4	2854.2	729.2	545.8
40°	21716.3	12867.6	1935.6	517.4	510.0
42.5°	20809.7	11154.2	1212.3	492.1	508.5
45°	19867.3	9415.4	666.6	493.6	477.2
47.5°	18844.3	7527.6	465.3	466.7	465.3
50°	17772.1	5399.6	439.9	460.8	456.3
52.5°	16616.4	3352.2	441.4	450.3	404.1
55°	15389.2	1956.5	413.1	399.6	310.2
57.5°	14099.3	1219.8	404.1	329.6	278.9
60°	12748.3	644.2	384.7	296.7	238.6
62.5°	11309.3	317.6	308.7	253.5	195.3
65°	9771.8	214.7	247.5	205.8	164.0
67.5°	8286.6	193.9	186.4	168.5	143.2
70°	6780.5	177.5	144.6	147.6	122.3
72.5°	5302.7	161.0	116.3	126.8	102.9
75°	3921.9	129.7	96.9	99.9	88.0
77.5°	2728.9	101.4	76.1	85.0	82.0
80°	1646.3	64.1	61.1	70.1	64.1
82.5°	797.8	41.8	47.7	55.2	50.7
85°	261.0	25.4	35.8	46.2	43.2
87.5°	32.8	14.9	29.8	40.3	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)