

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-N-CL-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-N-CL-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

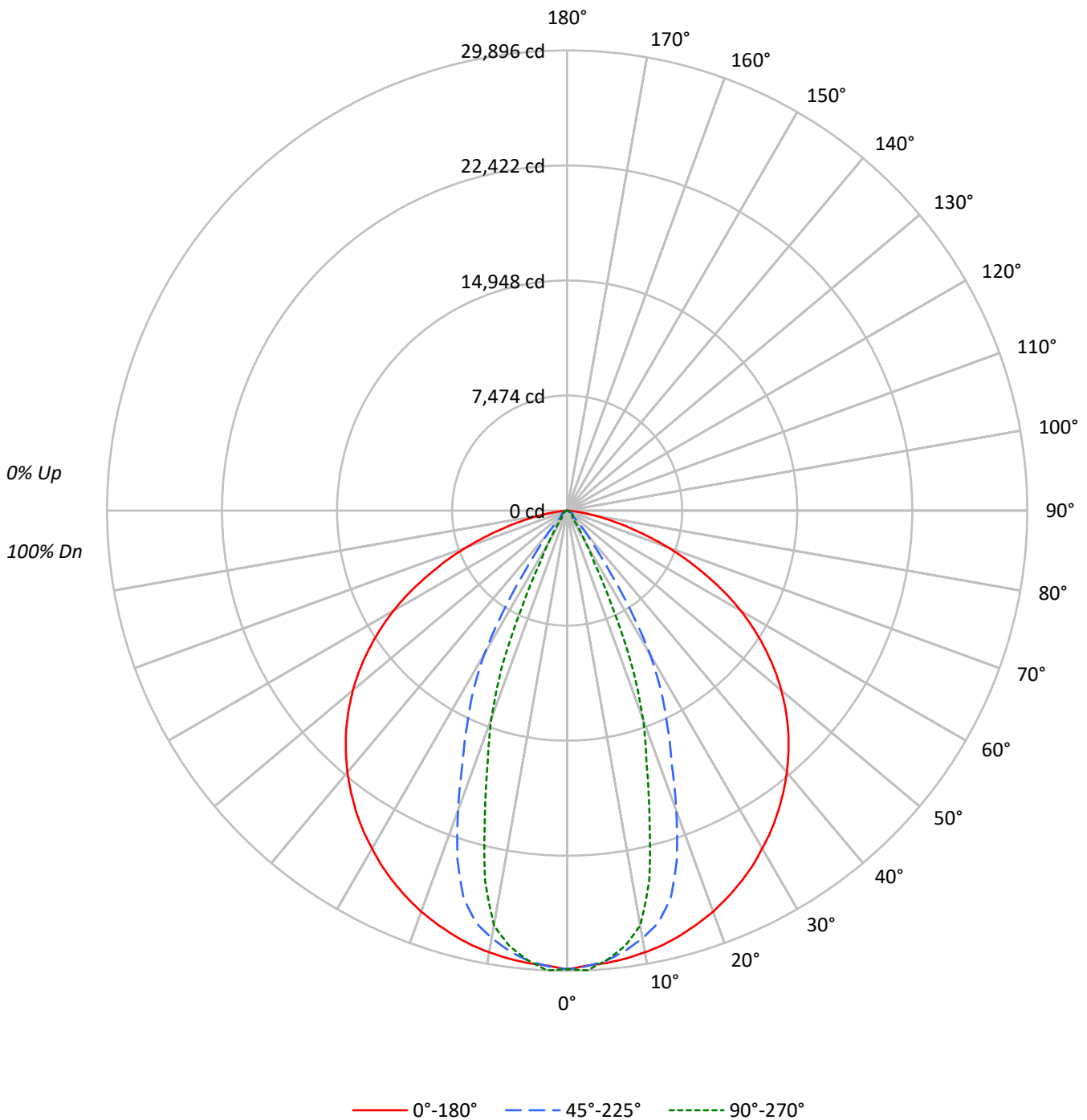
Lumens per Lamp: N/A
Luminaire Lumens: 31868.0 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	40092	40092	40092
5°	39846	39638	39609
10°	39819	38542	37405
15°	39773	36243	28761
20°	39696	29660	20630
25°	39571	22852	10483
30°	39384	16678	3814
35°	39243	7659	1327
40°	39002	3476	916
45°	38655	1297	928
50°	38039	942	977
55°	36913	991	744
60°	35078	1059	657
65°	31811	806	534
70°	27275	582	492
75°	20847	515	468
80°	13044	484	508
85°	4119	565	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2774.1	8.7
10°-20°	6988.2	21.9
20°-30°	7610.5	23.9
30°-40°	5693.0	17.9
40°-50°	4093.4	12.8
50°-60°	2514.0	7.9
60°-70°	1446.6	4.5
70°-80°	645.7	2.0
80°-90°	102.4	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°	17372.9	54.5
0°-40°	23065.9	72.4
0°-60°	29673.3	93.1
0°-90°	31868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29797	29797	29797	29797	29797	
5°	29502	29640	29348	29375	29326	###
15°	28553	28006	26019	22346	20647	8060
25°	26655	24743	15393	9876	7061	12287
35°	23892	17136	4663	1371	808	14945
45°	20315	9628	682	505	488	15650
55°	15736	2000	422	409	317	14030
65°	9992	220	253	210	168	9891
75°	4010	133	99	102	90	4352
85°	267	26	37	47	44	532
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29797.4	29797.4	29797.4	29797.4	29797.4
2.5°	29590.1	29783.7	29620.5	29766.9	29896.5
5°	29501.6	29640.4	29347.6	29375.1	29326.3
7.5°	29349.1	29382.7	28853.6	28649.3	28550.1
10°	29144.8	29054.9	28210.1	27723.7	27377.6
12.5°	28887.1	28589.8	27409.6	25672.9	24637.5
15°	28553.2	28005.8	26019.0	22345.8	20647.2
17.5°	28155.2	27395.9	23716.6	18623.8	17153.9
20°	27723.7	26721.9	20714.3	15834.9	14407.7
22.5°	27214.4	25860.4	17753.1	13169.6	11210.2
25°	26654.8	24742.7	15392.7	9876.1	7061.3
27.5°	26051.0	23268.3	13207.7	6056.5	3818.1
30°	25349.6	21473.6	10734.5	3398.8	2454.9
32.5°	24665.0	19381.6	7668.2	2264.3	1569.0
35°	23891.9	17135.6	4662.8	1370.8	808.1
37.5°	23073.1	15093.9	2918.4	745.6	558.1
40°	22205.5	13157.4	1979.2	529.1	521.5
42.5°	21278.4	11405.4	1239.7	503.2	520.0
45°	20314.8	9627.5	681.6	504.7	487.9
47.5°	19268.8	7697.1	475.7	477.3	475.7
50°	18172.4	5521.3	449.8	471.2	466.6
52.5°	16990.7	3427.7	451.3	460.5	413.2
55°	15735.8	2000.5	422.4	408.6	317.2
57.5°	14416.9	1247.3	413.2	337.0	285.1
60°	13035.4	658.7	393.4	303.4	244.0
62.5°	11564.0	324.8	315.6	259.2	199.7
65°	9991.9	219.6	253.1	210.4	167.7
67.5°	8473.3	198.2	190.6	172.3	146.4
70°	6933.2	181.4	147.9	151.0	125.0
72.5°	5422.1	164.7	118.9	129.6	105.2
75°	4010.2	132.7	99.1	102.2	90.0
77.5°	2790.4	103.7	77.8	86.9	83.9
80°	1683.4	65.6	62.5	71.7	65.6
82.5°	815.8	42.7	48.8	56.4	51.8
85°	266.8	25.9	36.6	47.3	44.2
87.5°	33.5	15.2	30.5	41.2	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)