

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-FLI-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 (P26703)  
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-FLI-UNV-L740-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

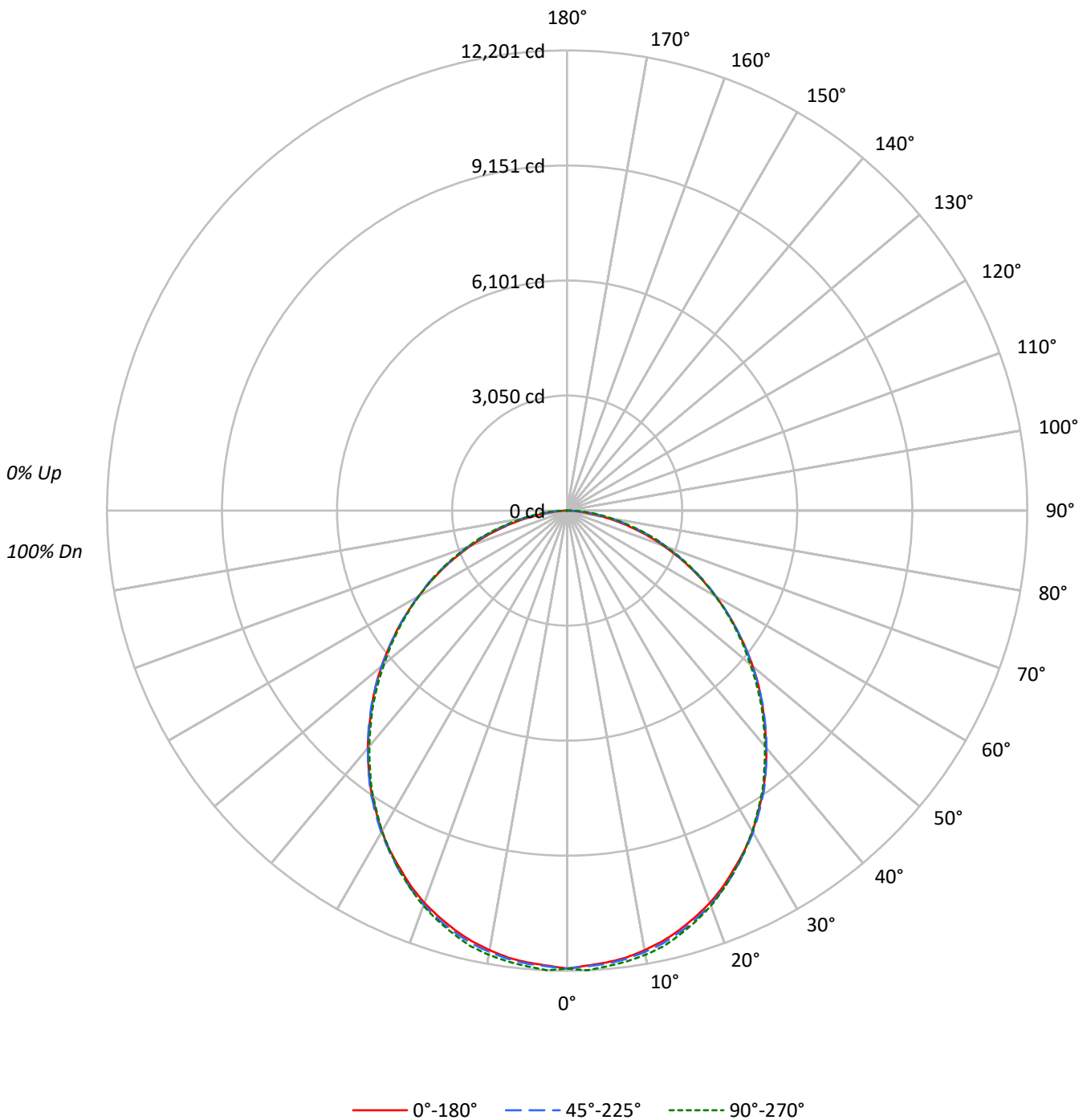
Lumens per Lamp: N/A  
Luminaire Lumens: 31717.0 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16337	16337	16337
5°	16244	16290	16383
10°	16170	16236	16341
15°	16028	16115	16194
20°	15847	15923	15969
25°	15553	15642	15619
30°	15267	15308	15245
35°	14888	14927	14831
40°	14441	14441	14330
45°	13936	13974	13832
50°	13457	13435	13267
55°	12875	12877	12761
60°	12251	12265	12218
65°	11547	11662	11692
70°	10665	10957	10969
75°	9425	10035	10192
80°	7730	8789	9286
85°	5365	7379	8344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1148.3	3.6
10°-20°	3266.8	10.3
20°-30°	4854.7	15.3
30°-40°	5676.4	17.9
40°-50°	5659.5	17.8
50°-60°	4910.4	15.5
60°-70°	3626.9	11.4
70°-80°	2030.7	6.4
80°-90°	541.8	1.7
90°-100°	1.6	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°	9269.8	29.2
0°-40°	14946.2	47.1
0°-60°	25516.0	80.4
0°-90°	31715.4	100.0
90°-120°	1.6	0.0
90°-150°	1.6	0.0
90°-180°	2.0	0.0
0°-180°	31717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12142	12142	12142	12142	12142	
5°	12027	12103	12061	12114	12130	###
15°	11507	11587	11569	11625	11626	3245
25°	10477	10561	10536	10559	10521	4830
35°	9064	9144	9088	9086	9030	5662
45°	7324	7402	7344	7314	7269	5654
55°	5488	5526	5489	5480	5440	4908
65°	3627	3662	3663	3682	3672	3587
75°	1813	1867	1930	1944	1960	1931
85°	348	420	478	520	540	422
90°	0	8	9	21	19	14
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12142.2	12142.2	12142.2	12142.2	12142.2
2.5°	12075.8	12147.6	12097.4	12145.3	12200.8
5°	12027.1	12102.8	12061.1	12114.4	12129.8
7.5°	11956.1	12029.4	11989.3	12042.6	12058.8
10°	11835.6	11915.1	11883.5	11943.7	11960.7
12.5°	11695.1	11770.0	11749.1	11819.4	11831.0
15°	11506.7	11587.0	11569.2	11624.8	11625.6
17.5°	11298.2	11373.9	11360.7	11404.0	11402.4
20°	11067.3	11148.4	11120.6	11167.7	11153.0
22.5°	10794.0	10880.5	10845.7	10885.1	10848.0
25°	10476.6	10560.8	10536.1	10559.2	10520.6
27.5°	10169.3	10246.5	10195.6	10223.4	10182.4
30°	9826.5	9892.1	9852.7	9862.0	9812.6
32.5°	9441.2	9519.1	9471.3	9469.7	9417.2
35°	9064.3	9143.9	9087.5	9086.0	9029.6
37.5°	8647.4	8721.5	8655.1	8659.0	8593.3
40°	8221.9	8286.0	8221.9	8218.8	8158.6
42.5°	7760.2	7845.1	7786.4	7793.4	7713.1
45°	7323.9	7401.9	7344.0	7313.9	7269.1
47.5°	6889.2	6923.2	6875.3	6867.6	6804.2
50°	6429.0	6454.5	6418.2	6408.9	6337.9
52.5°	5953.3	5997.3	5951.0	5938.7	5891.6
55°	5488.5	5526.3	5489.3	5480.0	5439.8
57.5°	5020.6	5070.0	5032.1	5022.9	4990.4
60°	4552.6	4567.3	4558.0	4571.9	4540.3
62.5°	4087.8	4121.8	4132.6	4128.7	4104.0
65°	3626.8	3662.3	3663.1	3681.6	3672.4
67.5°	3155.0	3201.4	3214.5	3233.8	3242.3
70°	2711.0	2746.6	2785.2	2796.8	2788.3
72.5°	2264.0	2321.1	2364.3	2374.4	2410.7
75°	1813.0	1867.1	1930.4	1944.3	1960.5
77.5°	1394.5	1466.3	1523.5	1542.0	1562.1
80°	997.6	1077.2	1134.3	1159.8	1198.4
82.5°	654.8	735.9	793.8	819.3	866.4
85°	347.5	420.1	478.0	520.4	540.5
87.5°	102.7	164.5	197.7	210.0	227.8
90°	0.0	7.7	9.3	20.8	19.3
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)