

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-CLI-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 (P23769)  
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-CLI-UNV-L740-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

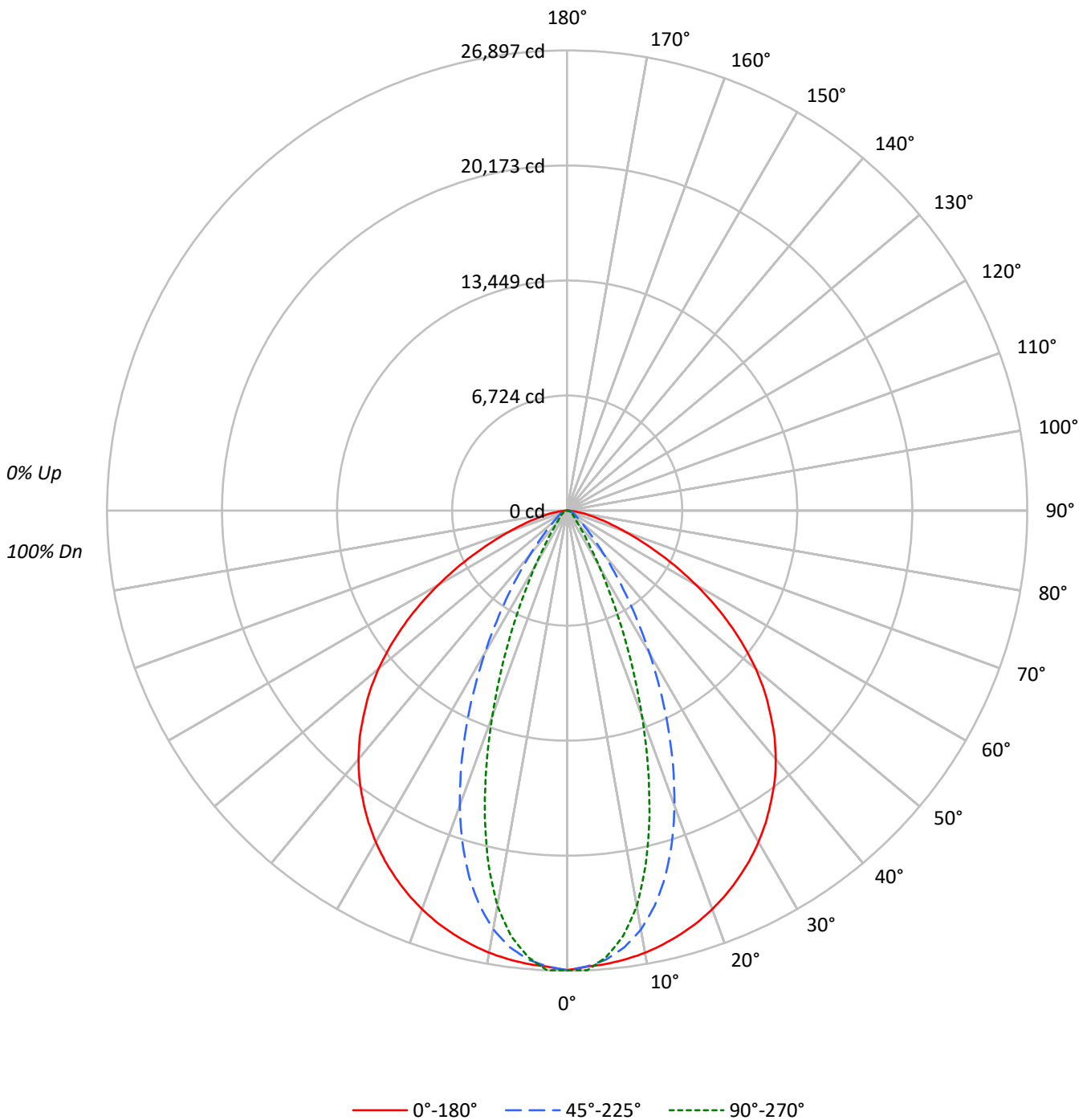
Lumens per Lamp: N/A  
Luminaire Lumens: 29406.0 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	36140	36140	36140
5°	35923	35566	35378
10°	35863	33955	32041
15°	35718	30865	25877
20°	35504	26263	18341
25°	35186	20709	11081
30°	34759	14946	5695
35°	34131	9771	2844
40°	33322	5869	1660
45°	31938	3505	1241
50°	30123	2292	1042
55°	27263	1739	909
60°	23428	1481	830
65°	18845	1351	784
70°	14198	1447	779
75°	10443	1376	802
80°	7641	1370	877
85°	5723	1660	1136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2473.7	8.4
10°-20°	6154.0	20.9
20°-30°	6816.5	23.2
30°-40°	5461.2	18.6
40°-50°	3898.6	13.3
50°-60°	2504.1	8.5
60°-70°	1357.1	4.6
70°-80°	580.0	2.0
80°-90°	160.9	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°	15444.1	52.5
0°-40°	20905.3	71.1
0°-60°	27308.1	92.9
0°-90°	29406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29406.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26860	26860	26860	26860	26860	
5°	26597	26696	26333	26249	26194	###
15°	25642	24840	22158	19581	18577	7235
25°	23701	20898	13949	9088	7464	10919
35°	20780	15030	5949	2399	1732	12992
45°	16784	8677	1842	784	652	12937
55°	11622	3879	741	456	388	10357
65°	5919	1593	424	293	246	5928
75°	2009	583	265	184	154	2232
85°	371	154	108	89	74	453
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	26860.3	26860.3	26860.3	26860.3	26860.3
2.5°	26683.4	26850.4	26670.7	26782.4	26897.0
5°	26597.1	26696.1	26332.6	26249.1	26193.9
7.5°	26447.2	26418.9	25735.5	25292.7	25079.1
10°	26249.1	26019.9	24852.7	23879.4	23452.1
12.5°	25966.1	25493.6	23657.3	21948.3	21223.9
15°	25642.2	24840.0	22157.7	19581.4	18577.0
17.5°	25254.5	24076.0	20365.2	17043.4	15717.8
20°	24796.2	23153.6	18342.1	14346.9	12809.1
22.5°	24284.0	22089.8	16176.1	11658.9	10009.3
25°	23701.1	20898.5	13949.3	9088.3	7464.2
27.5°	23071.6	19575.8	11735.3	6790.8	5309.5
30°	22372.7	18144.0	9620.2	4896.4	3665.6
32.5°	21610.2	16621.8	7655.2	3443.5	2506.9
35°	20779.7	15030.2	5949.0	2399.4	1731.6
37.5°	19929.4	13406.1	4493.2	1696.3	1242.1
40°	18971.7	11787.6	3341.6	1242.1	945.0
42.5°	17943.1	10200.3	2473.0	956.4	765.4
45°	16784.5	8676.6	1842.0	783.8	652.2
47.5°	15661.2	7256.2	1399.2	667.8	567.3
50°	14390.7	5974.4	1095.0	582.9	498.0
52.5°	13042.5	4846.9	888.5	513.6	438.6
55°	11622.1	3879.2	741.3	455.5	387.6
57.5°	10183.3	3072.8	633.8	406.0	345.2
60°	8706.3	2457.4	550.3	363.6	308.4
62.5°	7264.7	1965.1	481.0	326.8	275.9
65°	5919.3	1593.0	424.4	292.9	246.2
67.5°	4675.7	1259.1	396.1	263.1	222.1
70°	3609.0	980.4	367.8	234.8	198.1
72.5°	2734.7	752.6	325.4	209.4	175.4
75°	2008.9	582.9	264.6	183.9	154.2
77.5°	1437.4	448.5	215.0	159.9	133.0
80°	986.1	333.9	176.8	137.2	113.2
82.5°	640.9	236.3	142.9	113.2	93.4
85°	370.7	154.2	107.5	89.1	73.6
87.5°	159.9	84.9	73.6	66.5	56.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)