

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-W-CLI-UNV-L750-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 (P23766)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-36SE-W-CLI-UNV-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

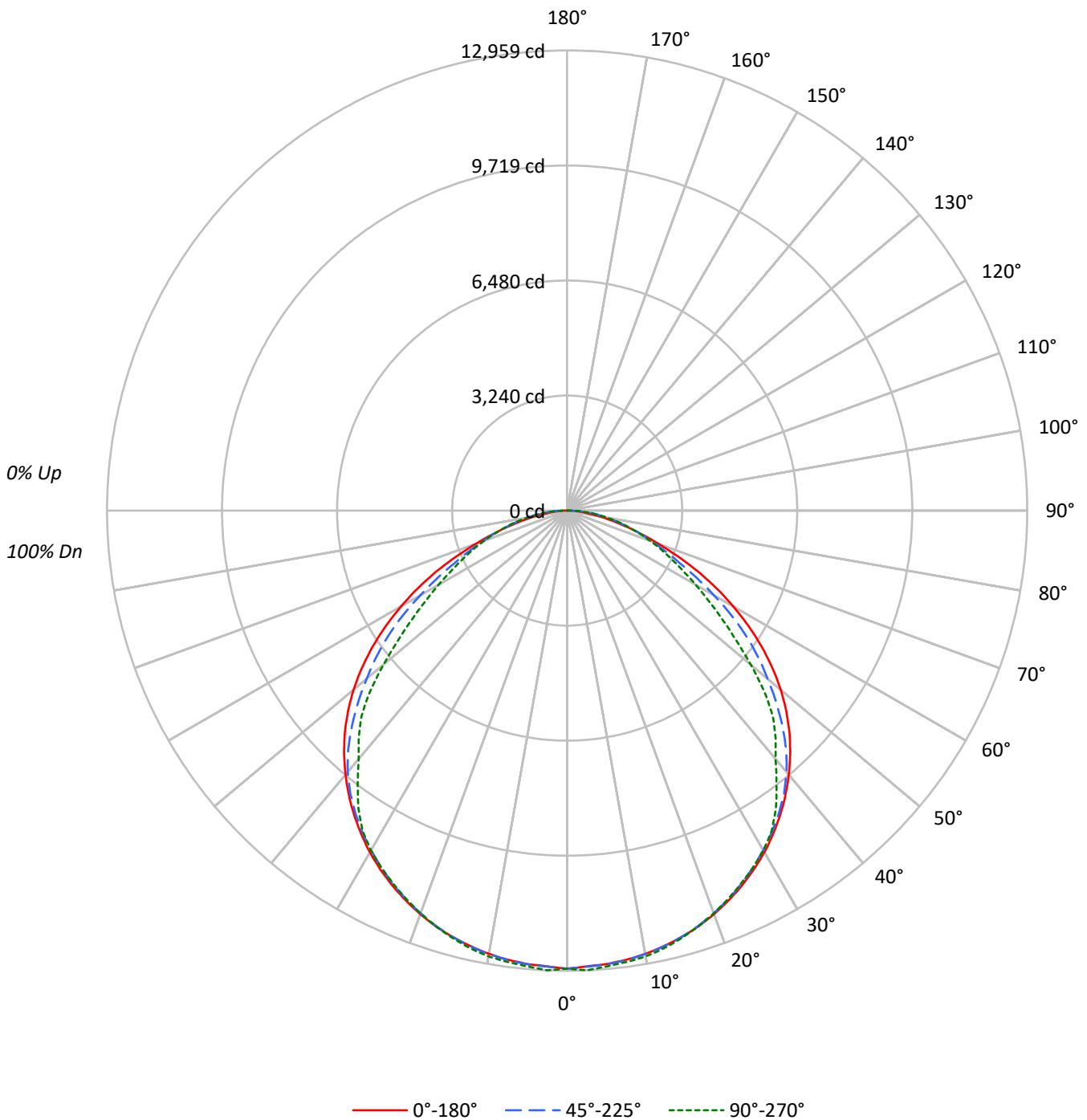
Lumens per Lamp: N/A  
Luminaire Lumens: 34659.0 lumens  
Efficiency: N/A  
Efficacy: 149.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

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

	0°	45°	90°
0°	17357	17357	17357
5°	17310	17323	17400
10°	17320	17329	17420
15°	17322	17320	17361
20°	17318	17278	17283
25°	17292	17227	17206
30°	17263	17160	17170
35°	17183	17076	16834
40°	17060	16886	16035
45°	16844	16305	15591
50°	16438	15437	14121
55°	15690	14437	12486
60°	14561	12881	11260
65°	12942	11153	10354
70°	10741	9967	9760
75°	8687	9121	9234
80°	6900	8724	8687
85°	5403	9372	8942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1223.4	3.5
10°-20°	3519.0	10.2
20°-30°	5365.8	15.5
30°-40°	6491.9	18.7
40°-50°	6575.7	19.0
50°-60°	5435.0	15.7
60°-70°	3589.7	10.4
70°-80°	1871.8	5.4
80°-90°	586.8	1.7
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°	10108.2	29.2
0°-40°	16600.1	47.9
0°-60°	28610.7	82.5
0°-90°	34659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34659.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	12900	12900	12900	12900	12900	
5°	12817	12894	12826	12882	12883	###
15°	12436	12499	12434	12473	12464	3512
25°	11647	11694	11604	11634	11590	5371
35°	10461	10475	10396	10382	10249	6543
45°	8852	8829	8569	8302	8194	6816
55°	6689	6590	6154	5557	5323	5962
65°	4065	3948	3503	3275	3252	4015
75°	1671	1700	1755	1778	1776	1820
85°	350	451	607	602	579	425
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	12900.3	12900.3	12900.3	12900.3	12900.3
2.5°	12846.1	12922.0	12858.5	12914.2	12959.1
5°	12816.6	12894.1	12825.9	12881.7	12883.2
7.5°	12759.3	12836.8	12767.1	12822.8	12821.3
10°	12677.3	12750.1	12683.5	12750.1	12750.1
12.5°	12565.8	12637.0	12572.0	12633.9	12624.6
15°	12435.7	12499.2	12434.1	12472.8	12463.6
17.5°	12282.4	12339.7	12266.9	12299.4	12280.8
20°	12095.0	12147.6	12067.1	12108.9	12070.2
22.5°	11884.4	11933.9	11851.8	11882.8	11839.4
25°	11647.4	11693.9	11604.1	11633.5	11590.1
27.5°	11391.9	11433.7	11333.0	11368.7	11334.6
30°	11111.6	11131.7	11045.0	11091.4	11051.2
32.5°	10798.8	10811.1	10735.3	10777.1	10708.9
35°	10461.1	10475.1	10396.1	10382.2	10249.0
37.5°	10100.3	10106.5	10032.2	9906.7	9686.8
40°	9713.1	9710.1	9614.0	9324.4	9129.3
42.5°	9299.7	9298.1	9129.3	8799.4	8687.9
45°	8852.1	8828.9	8568.7	8302.3	8193.9
47.5°	8372.0	8347.2	7983.3	7771.1	7524.9
50°	7853.2	7809.9	7374.7	7085.1	6745.9
52.5°	7294.2	7227.6	6784.6	6317.0	5996.4
55°	6688.6	6589.5	6154.3	5556.6	5322.7
57.5°	6058.3	5911.2	5488.4	4906.1	4715.6
60°	5411.0	5246.8	4786.9	4308.4	4184.5
62.5°	4745.1	4582.5	4113.2	3752.4	3684.2
65°	4065.2	3947.5	3503.1	3275.4	3252.2
67.5°	3368.3	3326.5	2987.4	2871.2	2861.9
70°	2730.3	2722.5	2533.6	2474.7	2480.9
72.5°	2182.1	2172.8	2144.9	2115.5	2117.0
75°	1671.0	1700.4	1754.6	1777.9	1776.3
77.5°	1246.7	1307.1	1421.7	1468.1	1460.4
80°	890.5	980.3	1125.9	1169.2	1121.2
82.5°	593.1	687.6	859.5	865.7	827.0
85°	350.0	450.7	607.1	602.4	579.2
87.5°	173.4	271.0	363.9	348.4	333.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)