

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-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 (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-L750-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

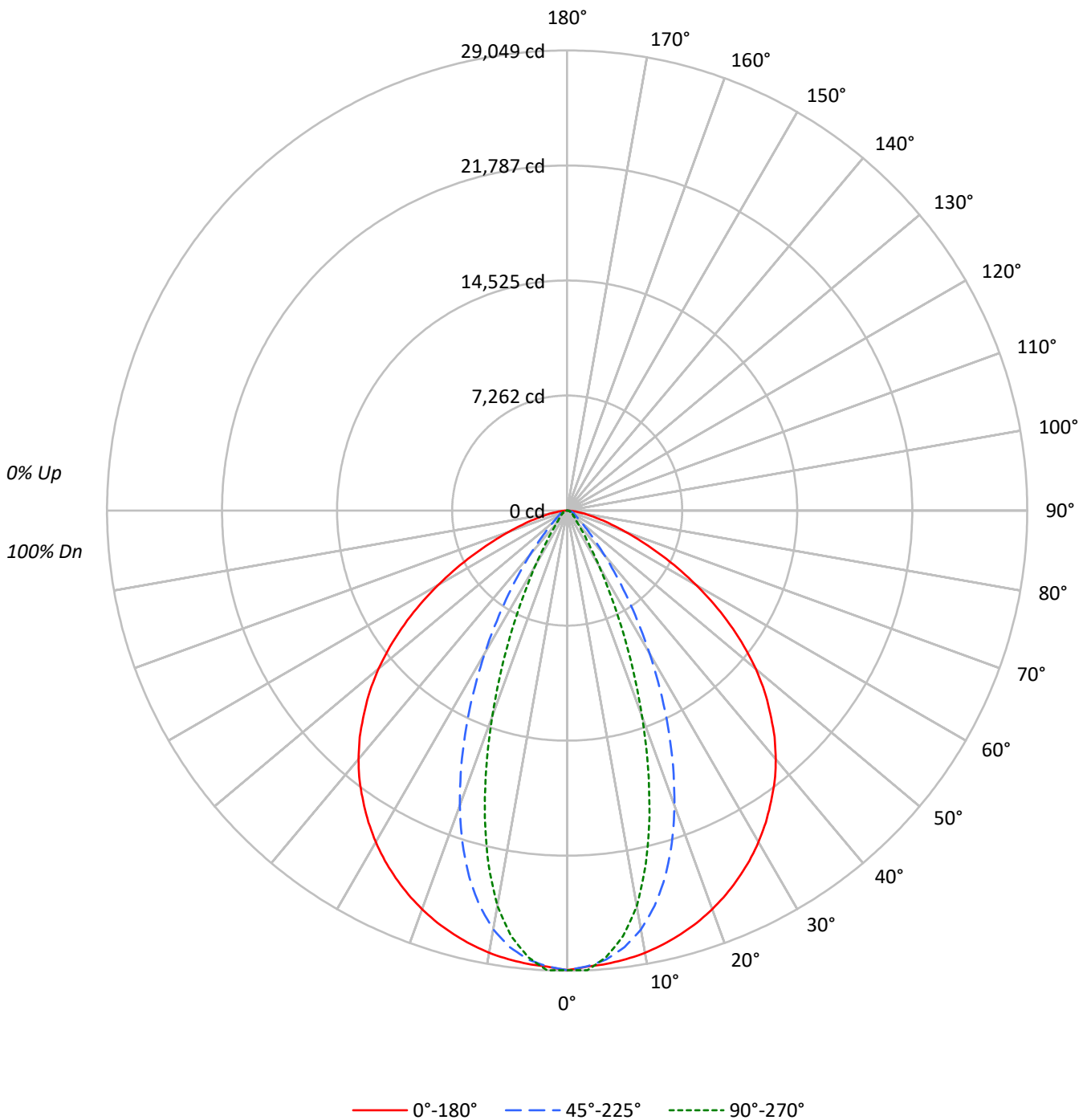
Lumens per Lamp: N/A  
Luminaire Lumens: 31759.0 lumens  
Efficiency: N/A  
Efficacy: 150.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	39032	39032	39032
5°	38797	38411	38209
10°	38732	36672	34605
15°	38576	33334	27947
20°	38345	28364	19808
25°	38002	22366	11968
30°	37540	16142	6151
35°	36863	10553	3072
40°	35988	6339	1793
45°	34493	3785	1340
50°	32533	2475	1126
55°	29445	1878	982
60°	25303	1600	896
65°	20353	1459	847
70°	15334	1563	841
75°	11279	1485	866
80°	8252	1480	947
85°	6180	1792	1227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2671.6	8.4
10°-20°	6646.4	20.9
20°-30°	7361.9	23.2
30°-40°	5898.2	18.6
40°-50°	4210.5	13.3
50°-60°	2704.5	8.5
60°-70°	1465.7	4.6
70°-80°	626.4	2.0
80°-90°	173.7	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°	16679.9	52.5
0°-40°	22578.1	71.1
0°-60°	29493.2	92.9
0°-90°	31759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31759.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	29010	29010	29010	29010	29010	
5°	28725	28832	28440	28350	28290	###
15°	27694	26828	23931	21148	20063	7814
25°	25598	22571	15066	9816	8061	11792
35°	22442	16233	6425	2591	1870	14032
45°	18128	9371	1989	846	704	13972
55°	12552	4190	801	492	419	11186
65°	6393	1720	458	316	266	6402
75°	2170	630	286	199	166	2411
85°	400	166	116	96	80	489
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	29009.6	29009.6	29009.6	29009.6	29009.6
2.5°	28818.6	28998.9	28804.8	28925.5	29049.3
5°	28725.4	28832.3	28439.6	28349.5	28289.9
7.5°	28563.4	28532.8	27794.8	27316.6	27085.9
10°	28349.5	28102.0	26841.4	25790.2	25328.7
12.5°	28043.9	27533.6	25550.3	23704.5	22922.2
15°	27694.0	26827.6	23930.7	21148.3	20063.4
17.5°	27275.3	26002.6	21994.8	18407.1	16975.5
20°	26780.3	25006.3	19809.8	15494.9	13834.0
22.5°	26227.2	23857.3	17470.5	12591.8	10810.2
25°	25597.7	22570.8	15065.5	9815.5	8061.4
27.5°	24917.7	21142.2	12674.3	7334.1	5734.4
30°	24162.9	19595.9	10390.0	5288.2	3958.9
32.5°	23339.4	17951.8	8267.7	3719.0	2707.5
35°	22442.4	16232.9	6425.0	2591.4	1870.2
37.5°	21524.2	14478.8	4852.8	1832.0	1341.5
40°	20489.7	12730.8	3609.0	1341.5	1020.7
42.5°	19378.9	11016.5	2670.8	1032.9	826.6
45°	18127.5	9370.9	1989.4	846.5	704.4
47.5°	16914.3	7836.8	1511.1	721.2	612.7
50°	15542.3	6452.5	1182.6	629.5	537.8
52.5°	14086.1	5234.7	959.5	554.6	473.7
55°	12552.1	4189.6	800.6	492.0	418.7
57.5°	10998.1	3318.7	684.5	438.5	372.8
60°	9403.0	2654.0	594.4	392.7	333.1
62.5°	7846.0	2122.3	519.5	353.0	297.9
65°	6392.9	1720.5	458.4	316.3	265.9
67.5°	5049.9	1359.9	427.8	284.2	239.9
70°	3897.8	1058.9	397.3	253.6	213.9
72.5°	2953.5	812.9	351.4	226.1	189.5
75°	2169.7	629.5	285.7	198.6	166.5
77.5°	1552.4	484.4	232.2	172.7	143.6
80°	1065.0	360.6	191.0	148.2	122.2
82.5°	692.2	255.2	154.3	122.2	100.8
85°	400.3	166.5	116.1	96.3	79.5
87.5°	172.7	91.7	79.5	71.8	61.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)