

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-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-LD5-36SE-N-CLI-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

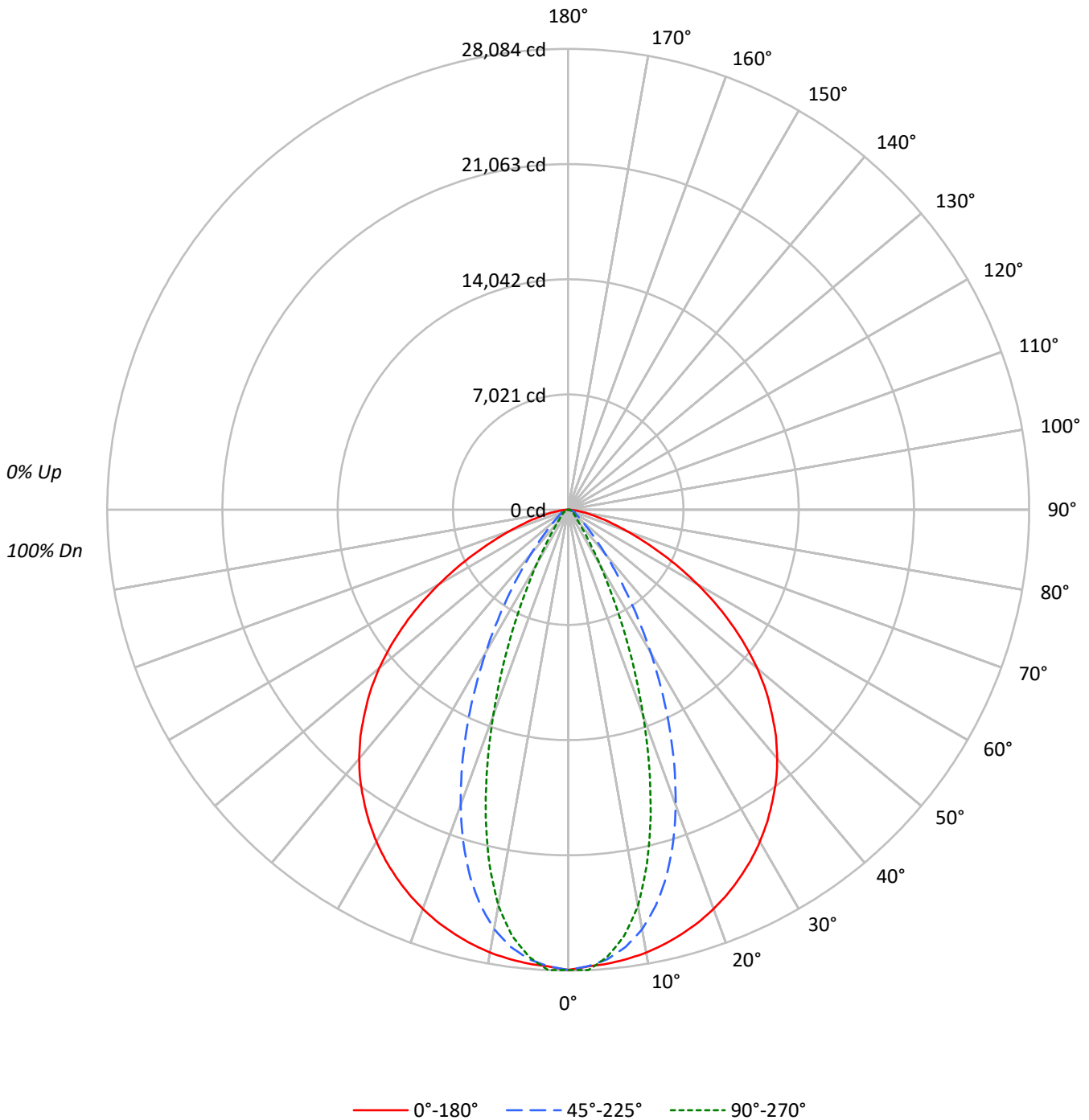
Lumens per Lamp: N/A
Luminaire Lumens: 30704.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	37735	37735	37735
5°	37508	37135	36940
10°	37446	35454	33456
15°	37295	32227	27019
20°	37071	27422	19150
25°	36739	21623	11570
30°	36293	15606	5946
35°	35638	10203	2970
40°	34793	6128	1733
45°	33347	3660	1296
50°	31453	2393	1088
55°	28466	1816	949
60°	24463	1546	866
65°	19677	1411	818
70°	14824	1511	814
75°	10905	1436	837
80°	7978	1430	916
85°	5974	1734	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2582.9	8.4
10°-20°	6425.6	20.9
20°-30°	7117.3	23.2
30°-40°	5702.3	18.6
40°-50°	4070.7	13.3
50°-60°	2614.7	8.5
60°-70°	1417.0	4.6
70°-80°	605.6	2.0
80°-90°	168.0	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°	16125.9	52.5
0°-40°	21828.1	71.1
0°-60°	28513.4	92.9
0°-90°	30704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28046	28046	28046	28046	28046	
5°	27771	27874	27495	27408	27350	###
15°	26774	25936	23136	20446	19397	7554
25°	24747	21821	14565	9490	7794	11401
35°	21697	15694	6212	2505	1808	13566
45°	17525	9060	1923	818	681	13508
55°	12135	4050	774	476	405	10815
65°	6181	1663	443	306	257	6189
75°	2098	609	276	192	161	2331
85°	387	161	112	93	77	473
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28045.9	28045.9	28045.9	28045.9	28045.9
2.5°	27861.2	28035.5	27847.9	27964.6	28084.3
5°	27771.1	27874.5	27494.9	27407.7	27350.1
7.5°	27614.5	27585.0	26871.5	26409.2	26186.1
10°	27407.7	27168.4	25949.8	24933.5	24487.3
12.5°	27112.3	26618.9	24701.5	22917.1	22160.8
15°	26774.0	25936.5	23135.7	20445.8	19397.0
17.5°	26369.3	25138.8	21264.1	17795.7	16411.6
20°	25890.7	24175.7	19151.7	14980.2	13374.5
22.5°	25355.9	23064.8	16890.2	12173.5	10451.1
25°	24747.3	21821.0	14565.1	9489.5	7793.6
27.5°	24090.0	20439.8	12253.3	7090.5	5543.9
30°	23360.2	18944.9	10044.9	5112.5	3827.4
32.5°	22564.0	17355.5	7993.1	3595.5	2617.6
35°	21696.9	15693.6	6211.6	2505.3	1808.1
37.5°	20809.1	13997.8	4691.5	1771.1	1297.0
40°	19809.1	12307.9	3489.1	1297.0	986.8
42.5°	18735.2	10650.5	2582.1	998.6	799.2
45°	17525.4	9059.6	1923.3	818.4	681.0
47.5°	16352.5	7576.5	1460.9	697.2	592.4
50°	15026.0	6238.2	1143.3	608.6	520.0
52.5°	13618.2	5060.8	927.7	536.2	457.9
55°	12135.1	4050.4	774.0	475.7	404.7
57.5°	10632.8	3208.5	661.8	424.0	360.4
60°	9090.6	2565.9	574.6	379.6	322.0
62.5°	7585.4	2051.8	502.2	341.2	288.1
65°	6180.6	1663.3	443.2	305.8	257.0
67.5°	4882.1	1314.7	413.6	274.8	231.9
70°	3768.3	1023.7	384.1	245.2	206.8
72.5°	2855.4	785.9	339.8	218.6	183.2
75°	2097.6	608.6	276.2	192.0	161.0
77.5°	1500.8	468.3	224.5	166.9	138.9
80°	1029.6	348.6	184.6	143.3	118.2
82.5°	669.2	246.7	149.2	118.2	97.5
85°	387.0	161.0	112.3	93.1	76.8
87.5°	166.9	88.6	76.8	69.4	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)