

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-CLWG-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-N-CLWG-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

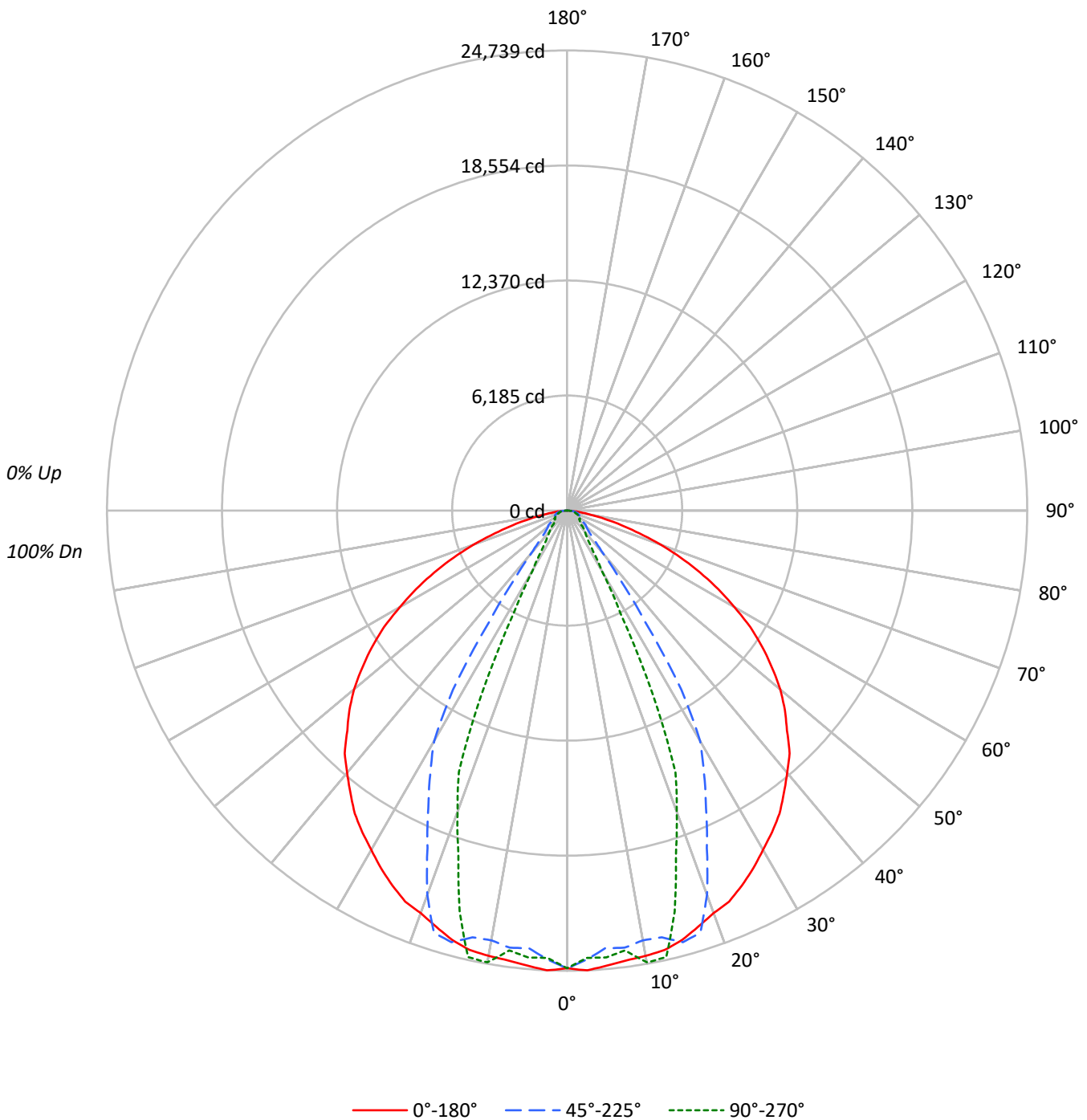
Lumens per Lamp: N/A
Luminaire Lumens: 33078.0 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33106	33106	33106
5°	33161	31898	32569
10°	33209	32051	33696
15°	33283	33456	31095
20°	32968	31467	24681
25°	33015	26233	16122
30°	32719	22223	5791
35°	32685	12039	3258
40°	32315	5249	2551
45°	31815	3244	2000
50°	31319	2825	1888
55°	30088	2451	1848
60°	27916	2196	1986
65°	25093	2481	2170
70°	21045	2668	2238
75°	15732	3043	2423
80°	9881	3533	2762
85°	6580	4429	4045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2280.6	6.9
10°-20°	6439.8	19.5
20°-30°	7885.7	23.8
30°-40°	6192.7	18.7
40°-50°	4592.2	13.9
50°-60°	2795.7	8.5
60°-70°	1674.6	5.1
70°-80°	918.8	2.8
80°-90°	298.0	0.9
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°	16606.0	50.2
0°-40°	22798.7	68.9
0°-60°	30186.6	91.3
0°-90°	33078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24605	24605	24605	24605	24605	
5°	24552	23884	23617	23877	24114	###
15°	23894	23239	24018	23048	22323	6727
25°	22239	22308	17670	13860	10860	10237
35°	19899	18101	7330	2452	1983	12416
45°	16720	12006	1705	1292	1051	12930
55°	12826	3308	1045	884	788	11414
65°	7882	975	779	733	682	7787
75°	3026	615	585	509	466	3277
85°	426	335	287	264	262	520
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24605.1	24605.1	24605.1	24605.1	24605.1
2.5°	24739.4	24406.1	24150.7	24008.1	24066.1
5°	24552.0	23883.7	23616.8	23877.1	24114.2
7.5°	24389.5	23396.2	23698.0	23721.2	23845.6
10°	24306.6	23349.8	23459.2	23974.9	24663.1
12.5°	24197.1	23457.6	23495.7	24198.8	24586.8
15°	23893.7	23238.7	24018.1	23048.0	22323.3
17.5°	23450.9	22727.9	23799.2	20418.0	19433.0
20°	23024.8	22172.4	21976.8	18187.7	17237.5
22.5°	22749.5	22087.9	19632.0	16206.1	15224.4
25°	22238.8	22308.4	17670.3	13859.6	10859.9
27.5°	21676.6	21789.4	15935.8	9243.1	6221.7
30°	21059.7	21189.1	14304.0	5462.3	3727.7
32.5°	20500.9	19771.3	11423.7	3407.7	2591.8
35°	19899.0	18101.4	7329.5	2452.5	1983.3
37.5°	19141.1	16347.0	4639.8	1940.1	1664.9
40°	18398.3	14771.7	2988.2	1656.6	1452.6
42.5°	17703.4	13473.3	2174.0	1447.6	1311.7
45°	16720.1	12005.7	1704.7	1291.8	1051.3
47.5°	15869.4	10284.4	1490.8	1092.8	907.1
50°	14962.4	7863.4	1349.8	971.7	902.1
52.5°	13886.2	5143.9	1247.0	930.3	842.4
55°	12826.5	3308.2	1044.7	883.8	787.7
57.5°	11682.4	2097.7	922.0	857.3	822.5
60°	10374.0	1414.5	815.9	812.5	737.9
62.5°	9163.5	1162.4	787.7	779.4	698.1
65°	7881.6	975.0	779.4	732.9	681.5
67.5°	6601.5	835.8	704.8	669.9	625.2
70°	5349.5	764.5	678.2	663.3	568.8
72.5°	4062.7	630.1	601.9	562.1	472.6
75°	3026.3	615.2	585.4	509.1	466.0
77.5°	2047.9	567.1	532.3	456.0	421.2
80°	1275.2	520.7	456.0	399.6	356.5
82.5°	757.8	434.5	374.8	330.0	301.8
85°	426.2	335.0	286.9	263.7	262.0
87.5°	91.2	121.1	96.2	91.2	64.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)