

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-A-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 (P23761)
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-A-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

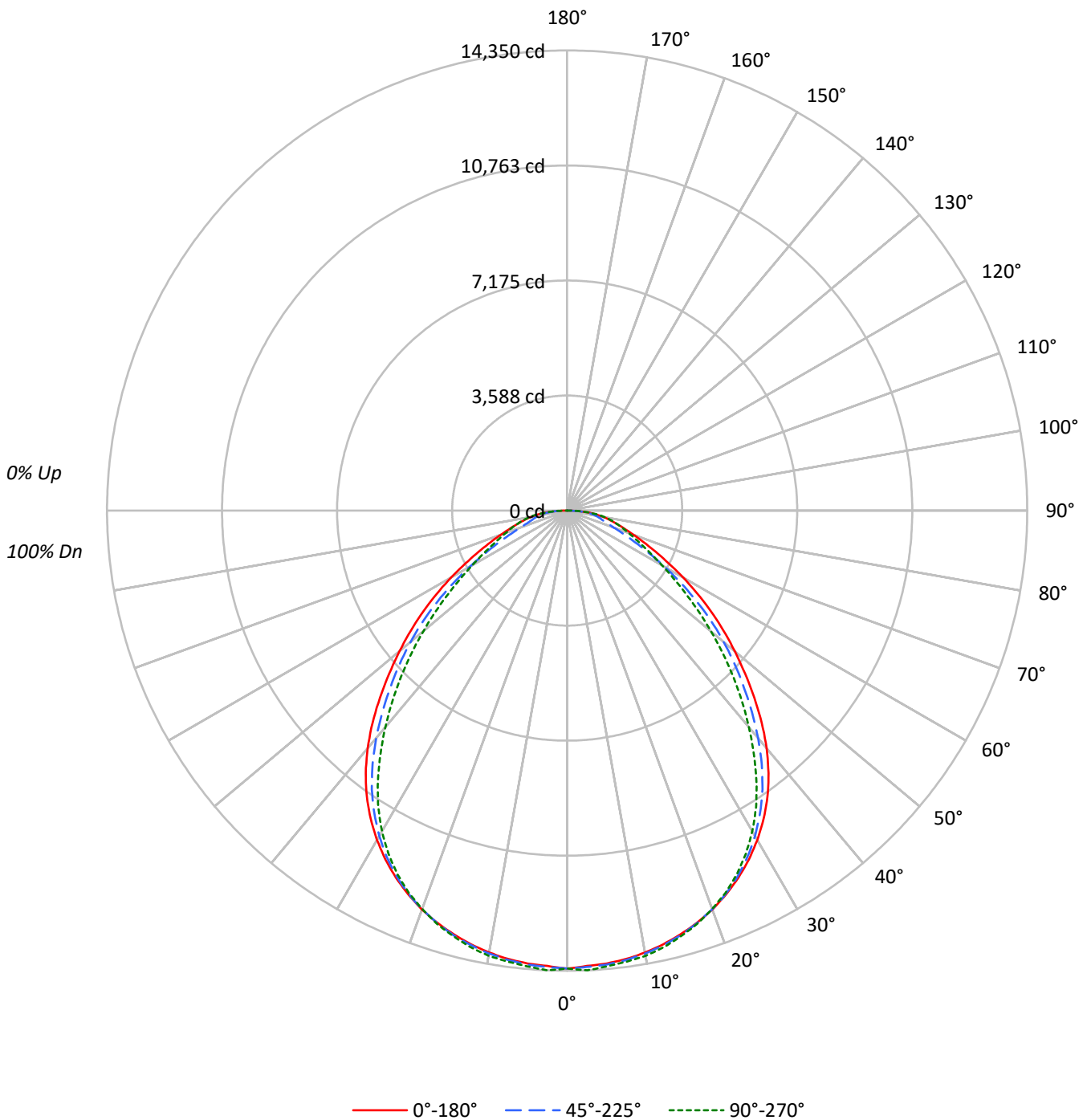
Lumens per Lamp: N/A
Luminaire Lumens: 32806.0 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-36SE-W-A-UNV-L750-ED3-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36SE-W-A-UNV-L750-ED3-U

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19215	19215	19215
5°	19147	19190	19269
10°	19120	19164	19261
15°	19056	19094	19139
20°	18956	18942	18928
25°	18751	18686	18581
30°	18427	18204	17939
35°	17891	17441	16904
40°	17001	16272	15491
45°	15706	14830	13932
50°	14277	13354	12255
55°	12838	11561	10594
60°	11234	9448	9192
65°	9686	7430	8296
70°	8636	6063	7996
75°	8272	5920	8356
80°	8948	7001	9310
85°	10045	8429	10144



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36SE-W-A-UNV-L750-ED3-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1353.5	4.1
10°-20°	3873.6	11.8
20°-30°	5794.5	17.7
30°-40°	6611.0	20.2
40°-50°	6017.9	18.3
50°-60°	4418.9	13.5
60°-70°	2609.2	8.0
70°-80°	1495.2	4.6
80°-90°	632.2	1.9
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°	11021.6	33.6
0°-40°	17632.6	53.7
0°-60°	28069.4	85.6
0°-90°	32806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	32806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14281	14281	14281	14281	14281	
5°	14176	14265	14208	14265	14266	###
15°	13680	13756	13708	13756	13740	3860
25°	12630	12675	12587	12582	12516	5814
35°	10892	10839	10618	10437	10292	6786
45°	8254	8206	7794	7444	7322	6361
55°	5473	5220	4928	4571	4516	4894
65°	3042	2656	2334	2496	2606	3062
75°	1591	1364	1139	1485	1607	1715
85°	651	601	546	644	657	681
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-36SE-W-A-UNV-L750-ED3-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14281.0	14281.0	14281.0	14281.0	14281.0
2.5°	14215.0	14297.1	14245.6	14301.9	14350.3
5°	14176.3	14264.9	14208.5	14264.9	14266.5
7.5°	14105.5	14187.6	14132.8	14194.0	14187.6
10°	13994.3	14076.5	14026.5	14092.6	14097.4
12.5°	13852.6	13931.5	13880.0	13955.7	13942.8
15°	13680.3	13756.0	13707.6	13756.0	13739.9
17.5°	13477.3	13546.6	13483.8	13536.9	13509.5
20°	13239.0	13296.9	13229.3	13279.2	13219.6
22.5°	12953.9	13005.4	12934.6	12961.9	12900.7
25°	12630.2	12675.3	12586.7	12581.8	12515.8
27.5°	12269.4	12293.6	12180.8	12142.2	12066.5
30°	11860.3	11866.7	11717.0	11644.5	11546.2
32.5°	11401.3	11385.2	11193.5	11085.6	10964.8
35°	10892.3	10839.2	10618.5	10436.6	10291.6
37.5°	10317.4	10233.6	9969.5	9700.5	9562.0
40°	9679.6	9581.3	9264.1	8930.7	8819.5
42.5°	8985.4	8901.7	8528.0	8180.1	8070.6
45°	8254.2	8205.9	7793.6	7444.1	7321.7
47.5°	7523.0	7487.6	7084.9	6729.0	6580.8
50°	6820.8	6743.5	6379.5	5989.7	5854.5
52.5°	6139.5	5981.7	5661.2	5261.8	5161.9
55°	5472.7	5219.9	4928.4	4570.8	4516.1
57.5°	4812.4	4485.5	4202.0	3934.6	3933.0
60°	4174.6	3801.0	3511.1	3370.9	3416.0
62.5°	3577.1	3193.8	2879.7	2889.4	2971.5
65°	3042.4	2655.8	2333.7	2496.4	2605.9
67.5°	2583.4	2214.5	1887.6	2190.4	2295.1
70°	2195.2	1861.8	1541.3	1919.8	2032.6
72.5°	1868.3	1588.0	1299.7	1694.3	1808.7
75°	1591.3	1364.2	1138.7	1485.0	1607.4
77.5°	1365.8	1164.4	1021.1	1285.2	1412.5
80°	1154.8	977.6	903.5	1092.0	1201.5
82.5°	914.8	792.4	748.9	887.4	943.8
85°	650.7	600.7	546.0	644.2	657.1
87.5°	357.5	370.4	306.0	370.4	372.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)