

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-W-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36HE-W-CLWG-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

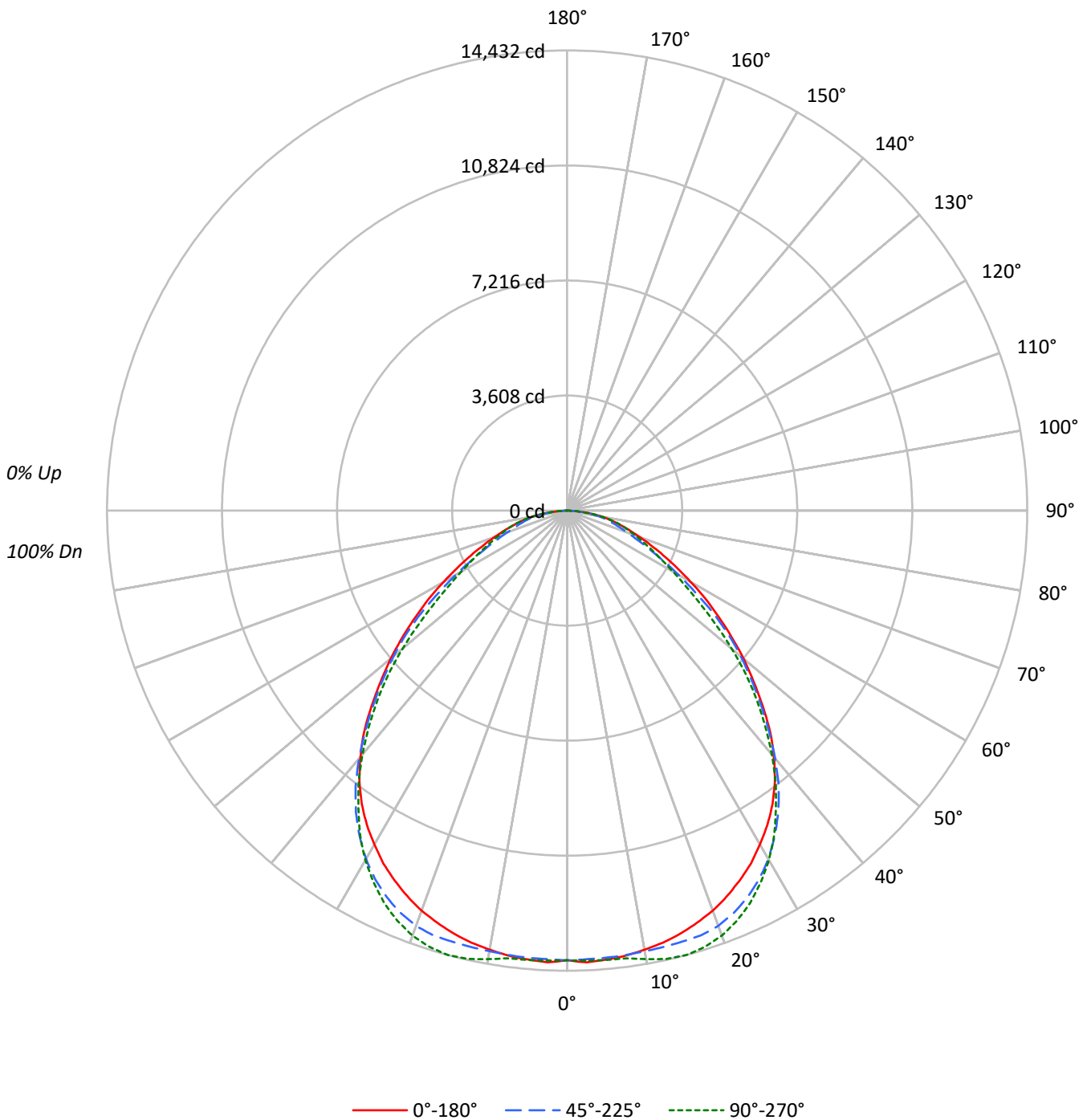
Lumens per Lamp: N/A
Luminaire Lumens: 35177.0 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88				86	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75				73	
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65				63	
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57				55	
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50				48	
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44				42	
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40				38	
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36				34	
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32				31	
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30				28	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18978	18978	18978
5°	19090	19011	19105
10°	19107	19171	19514
15°	19131	19490	20104
20°	19118	19847	20311
25°	19001	19865	20157
30°	18783	19602	19664
35°	18447	18967	18740
40°	17720	17828	17547
45°	16510	16337	16005
50°	15117	14873	14111
55°	13578	13074	11931
60°	12042	10818	10299
65°	10610	8988	9347
70°	9489	7800	8902
75°	8889	7584	9002
80°	8654	7668	8570
85°	6908	6065	6291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1343.6	3.8
10°-20°	3957.8	11.3
20°-30°	6088.6	17.3
30°-40°	7105.7	20.2
40°-50°	6603.1	18.8
50°-60°	4894.5	13.9
60°-70°	2992.1	8.5
70°-80°	1704.3	4.8
80°-90°	487.4	1.4
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°	11390.0	32.4
0°-40°	18495.7	52.6
0°-60°	29993.3	85.3
0°-90°	35177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14105	14105	14105	14105	14105	
5°	14134	14069	14076	14065	14145	###
15°	13734	13727	13992	14269	14432	3877
25°	12799	12897	13381	13494	13577	5896
35°	11231	11318	11547	11453	11409	6998
45°	8677	8728	8586	8451	8411	6686
55°	5788	5643	5574	5177	5086	5194
65°	3332	3027	2823	2900	2936	3335
75°	1710	1604	1459	1663	1732	1830
85°	448	437	393	408	408	516
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14105.0	14105.0	14105.0	14105.0	14105.0
2.5°	14181.4	14101.3	14086.8	14054.0	14126.8
5°	14134.1	14068.6	14075.9	14064.9	14145.0
7.5°	14079.5	14032.2	14061.3	14057.7	14163.2
10°	13984.9	13959.4	14032.2	14112.2	14283.2
12.5°	13879.4	13853.9	14014.0	14217.7	14403.3
15°	13733.9	13726.6	13992.2	14268.7	14432.4
17.5°	13552.0	13562.9	13966.7	14203.2	14348.7
20°	13351.9	13370.1	13861.2	14054.0	14185.0
22.5°	13093.6	13155.4	13657.5	13817.6	13919.4
25°	12798.9	12897.1	13381.0	13493.8	13577.4
27.5°	12482.4	12580.6	13039.0	13097.2	13144.5
30°	12089.4	12227.7	12617.0	12624.3	12657.0
32.5°	11689.3	11813.0	12111.3	12078.5	12085.8
35°	11230.9	11318.2	11547.4	11452.8	11409.1
37.5°	10703.3	10750.6	10896.1	10754.3	10747.0
40°	10088.5	10150.3	10150.3	9953.9	9990.3
42.5°	9433.6	9455.5	9364.5	9179.0	9208.1
45°	8676.9	8727.8	8585.9	8451.3	8411.3
47.5°	7927.4	7978.4	7829.2	7672.8	7603.7
50°	7221.7	7196.2	7105.2	6839.7	6741.4
52.5°	6490.4	6410.4	6374.0	5984.7	5871.9
55°	5788.2	5642.7	5573.6	5177.0	5086.1
57.5°	5137.0	4875.1	4744.1	4434.9	4398.5
60°	4474.9	4180.2	4020.1	3820.0	3827.3
62.5°	3874.6	3565.4	3372.5	3314.3	3339.8
65°	3332.5	3026.9	2823.2	2899.6	2936.0
67.5°	2841.4	2590.3	2361.1	2539.4	2575.8
70°	2412.1	2212.0	1982.8	2244.7	2262.9
72.5°	2055.5	1891.8	1699.0	1946.4	1986.4
75°	1709.9	1604.4	1458.9	1662.6	1731.7
77.5°	1407.9	1324.3	1240.6	1364.3	1440.7
80°	1116.9	1033.2	989.6	1055.1	1106.0
82.5°	789.5	734.9	691.2	738.5	764.0
85°	447.5	436.6	392.9	407.5	407.5
87.5°	101.9	116.4	131.0	120.1	101.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)