

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-WG-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

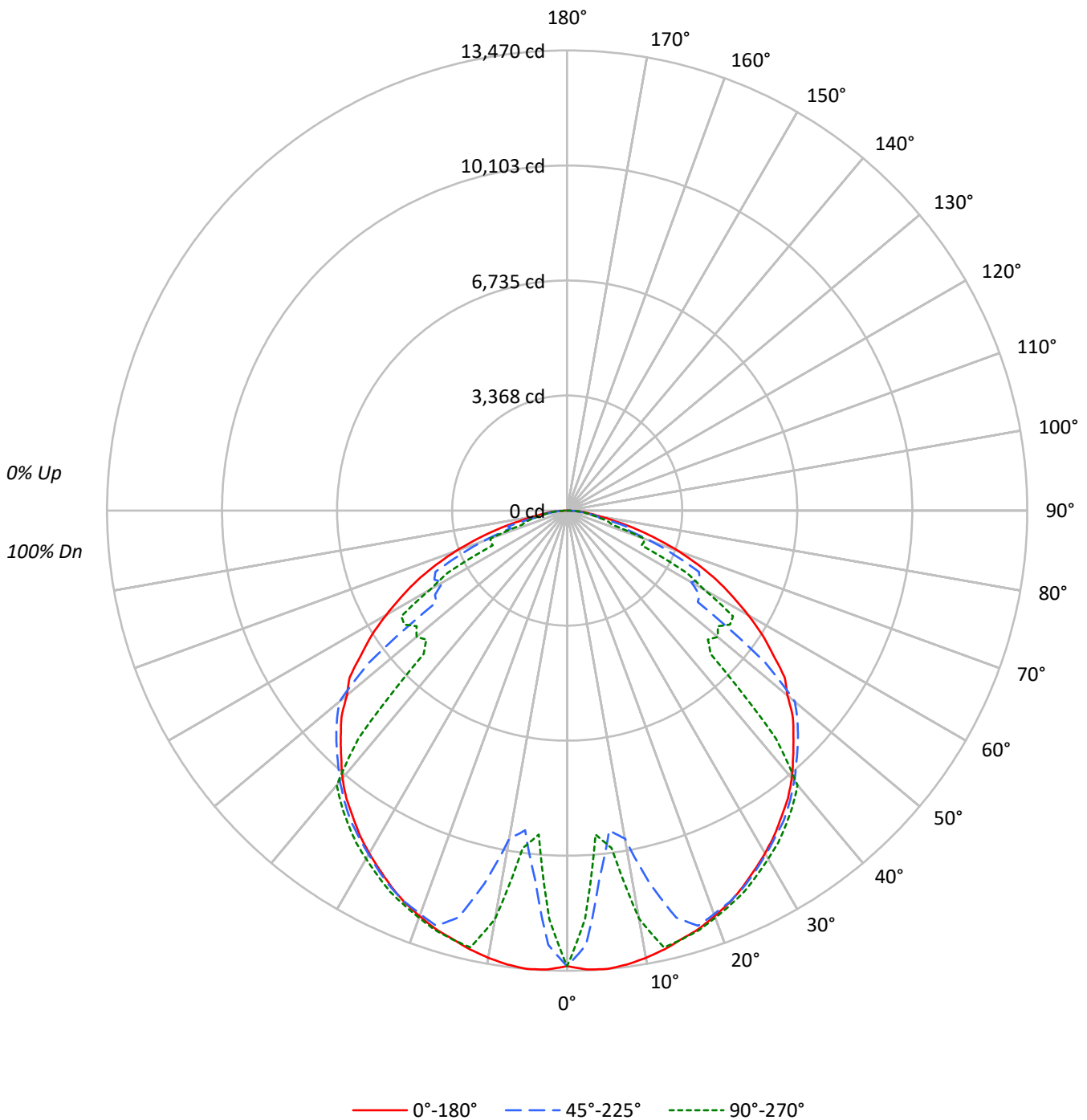
Lumens per Lamp: N/A
Luminaire Lumens: 35330.0 lumens
Efficiency: N/A
Efficacy: 152.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17943	17943	17943
5°	18193	14615	12854
10°	18161	13329	16577
15°	18081	17179	18097
20°	18081	17999	18159
25°	18049	18089	18255
30°	17996	18056	18289
35°	17968	18167	18379
40°	17970	18166	18427
45°	17830	18178	11297
50°	17628	18215	12040
55°	17256	10953	13646
60°	16461	11290	12496
65°	15423	13555	7646
70°	13619	10269	9372
75°	10851	9335	6499
80°	7476	6747	5585
85°	7163	6228	5908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1066.4	3.0
10°-20°	3340.9	9.5
20°-30°	5496.5	15.6
30°-40°	6911.1	19.6
40°-50°	6778.1	19.2
50°-60°	5616.0	15.9
60°-70°	3961.1	11.2
70°-80°	1728.2	4.9
80°-90°	431.8	1.2
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°	9903.8	28.0
0°-40°	16814.9	47.6
0°-60°	29209.0	82.7
0°-90°	35330.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	35330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13336	13336	13336	13336	13336	
5°	13470	12537	10821	9812	9517	###
15°	12980	9014	12333	13031	12992	3671
25°	12158	11124	12185	12266	12296	5604
35°	10939	10933	11060	11134	11190	6854
45°	9370	9399	9554	8461	5937	7233
55°	7356	7597	4669	5308	5817	6582
65°	4844	5130	4258	3275	2402	4763
75°	2087	2046	1796	1174	1250	2238
85°	464	413	403	386	383	481
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13335.9	13335.9	13335.9	13335.9	13335.9
2.5°	13446.0	13166.9	12723.6	12165.5	11967.7
5°	13469.9	12537.0	10821.2	9811.8	9516.8
7.5°	13401.3	11393.7	9433.9	9645.9	9958.5
10°	13292.9	10389.0	9756.0	11478.2	12133.6
12.5°	13154.1	9496.0	11176.8	12966.0	13096.7
15°	12980.3	9014.5	12332.9	13031.4	12991.5
17.5°	12833.6	9296.7	12747.5	12900.6	12871.9
20°	12627.9	9859.6	12570.5	12693.3	12682.1
22.5°	12420.6	10526.2	12403.1	12490.8	12490.8
25°	12157.5	11124.2	12184.6	12265.9	12296.2
27.5°	11868.9	11468.6	11911.9	11978.9	12033.1
30°	11583.4	11518.0	11621.7	11707.8	11771.6
32.5°	11282.0	11256.5	11337.8	11428.7	11510.1
35°	10939.2	10932.8	11060.4	11133.7	11189.5
37.5°	10617.1	10594.8	10712.8	10814.8	10857.9
40°	10231.2	10231.2	10342.8	10446.4	10491.1
42.5°	9791.1	9853.2	9939.4	10046.2	9048.0
45°	9370.1	9398.8	9553.5	8461.1	5936.8
47.5°	8965.0	9001.7	9148.4	5439.3	5587.6
50°	8421.3	8587.1	8701.9	5423.4	5751.8
52.5°	8024.2	8096.0	7305.0	5369.1	5554.1
55°	7356.0	7596.8	4669.1	5308.5	5817.2
57.5°	6785.2	6960.6	4591.0	5439.3	5755.0
60°	6117.0	6384.9	4195.5	5247.9	4643.6
62.5°	5476.0	5731.1	4380.5	4130.1	3932.4
65°	4844.5	5129.9	4257.7	3275.4	2401.5
67.5°	4152.4	3886.1	3396.6	2307.4	2428.6
70°	3462.0	2714.1	2610.4	2580.1	2382.4
72.5°	2752.3	1980.5	1733.4	1935.9	1385.7
75°	2087.4	2045.9	1795.6	1173.7	1250.2
77.5°	1447.9	1476.6	961.6	1144.9	950.4
80°	964.8	835.6	870.7	730.3	720.8
82.5°	668.2	682.5	572.5	554.9	562.9
85°	464.0	413.0	403.4	385.9	382.7
87.5°	154.7	180.2	167.4	151.5	161.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)