

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-LD5-15HE-W-WG-UNV-L750-ED1-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-LD5-15HE-W-WG-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

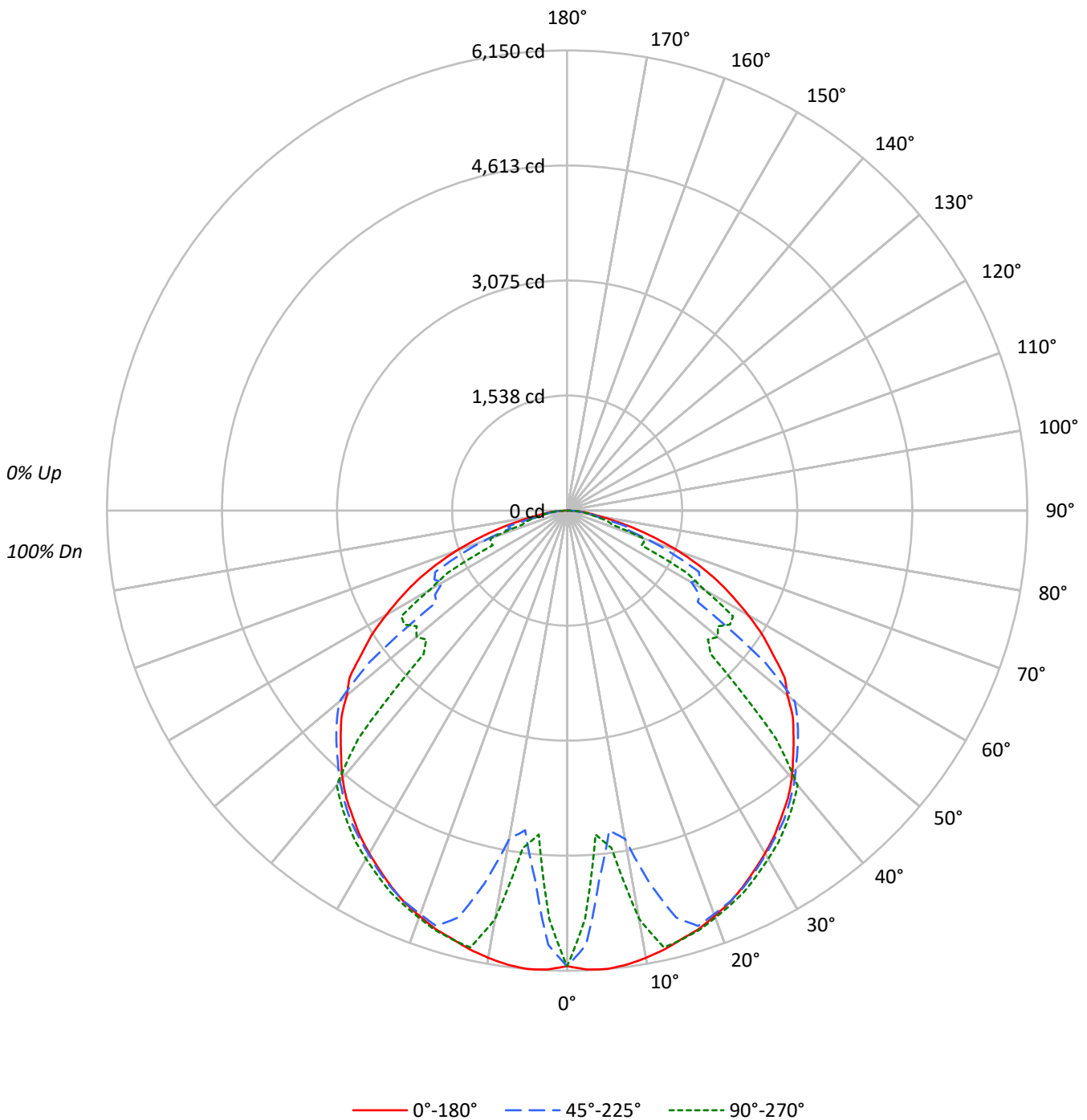
Lumens per Lamp: N/A
Luminaire Lumens: 16132.0 lumens
Efficiency: N/A
Efficacy: 175.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 91.8
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8193	8193	8193
5°	8307	6674	5869
10°	8293	6086	7569
15°	8256	7844	8263
20°	8256	8218	8291
25°	8241	8260	8335
30°	8217	8245	8351
35°	8204	8295	8392
40°	8205	8295	8414
45°	8141	8300	5158
50°	8049	8317	5497
55°	7879	5001	6231
60°	7516	5155	5706
65°	7042	6189	3491
70°	6219	4689	4279
75°	4955	4262	2967
80°	3413	3081	2550
85°	3271	2844	2697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.9	3.0
10°-20°	1525.5	9.5
20°-30°	2509.8	15.6
30°-40°	3155.7	19.6
40°-50°	3094.9	19.2
50°-60°	2564.3	15.9
60°-70°	1808.7	11.2
70°-80°	789.1	4.9
80°-90°	197.1	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°	4522.2	28.0
0°-40°	7677.8	47.6
0°-60°	13337.1	82.7
0°-90°	16132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6089	6089	6089	6089	6089	
5°	6150	5724	4941	4480	4345	584
15°	5927	4116	5631	5950	5932	1676
25°	5551	5079	5564	5601	5615	2559
35°	4995	4992	5050	5084	5109	3130
45°	4278	4292	4362	3863	2711	3303
55°	3359	3469	2132	2424	2656	3005
65°	2212	2342	1944	1496	1097	2175
75°	953	934	820	536	571	1022
85°	212	189	184	176	175	220
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6089.3	6089.3	6089.3	6089.3	6089.3
2.5°	6139.5	6012.1	5809.7	5554.9	5464.6
5°	6150.5	5724.5	4941.1	4480.2	4345.4
7.5°	6119.2	5202.4	4307.6	4404.4	4547.1
10°	6069.6	4743.7	4454.7	5241.0	5540.3
12.5°	6006.3	4336.0	5103.4	5920.4	5980.1
15°	5926.9	4116.1	5631.3	5950.2	5932.0
17.5°	5859.9	4245.0	5820.6	5890.5	5877.4
20°	5766.0	4502.0	5739.8	5795.9	5790.8
22.5°	5671.4	4806.4	5663.4	5703.4	5703.4
25°	5551.2	5079.4	5563.6	5600.7	5614.6
27.5°	5419.4	5236.7	5439.1	5469.7	5494.4
30°	5289.1	5259.2	5306.6	5345.9	5375.0
32.5°	5151.5	5139.8	5177.0	5218.5	5255.6
35°	4994.9	4992.0	5050.3	5083.8	5109.2
37.5°	4847.9	4837.7	4891.5	4938.1	4957.8
40°	4671.6	4671.6	4722.6	4769.9	4790.3
42.5°	4470.7	4499.1	4538.4	4587.2	4131.4
45°	4278.5	4291.6	4362.2	3863.4	2710.8
47.5°	4093.5	4110.3	4177.3	2483.6	2551.3
50°	3845.2	3921.0	3973.4	2476.4	2626.3
52.5°	3663.9	3696.7	3335.5	2451.6	2536.1
55°	3358.8	3468.8	2131.9	2423.9	2656.2
57.5°	3098.2	3178.3	2096.3	2483.6	2627.8
60°	2793.1	2915.4	1915.7	2396.3	2120.3
62.5°	2500.4	2616.9	2000.2	1885.8	1795.6
65°	2212.0	2342.4	1944.1	1495.6	1096.6
67.5°	1896.0	1774.4	1550.9	1053.6	1108.9
70°	1580.8	1239.3	1191.9	1178.1	1087.8
72.5°	1256.7	904.3	791.5	883.9	632.7
75°	953.1	934.2	819.9	535.9	570.8
77.5°	661.1	674.2	439.1	522.8	434.0
80°	440.5	381.5	397.6	333.5	329.1
82.5°	305.1	311.6	261.4	253.4	257.0
85°	211.9	188.6	184.2	176.2	174.7
87.5°	70.6	82.3	76.5	69.2	73.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)