

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-LD5-15SE-W-AI-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 (P23765)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15SE-W-AI-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

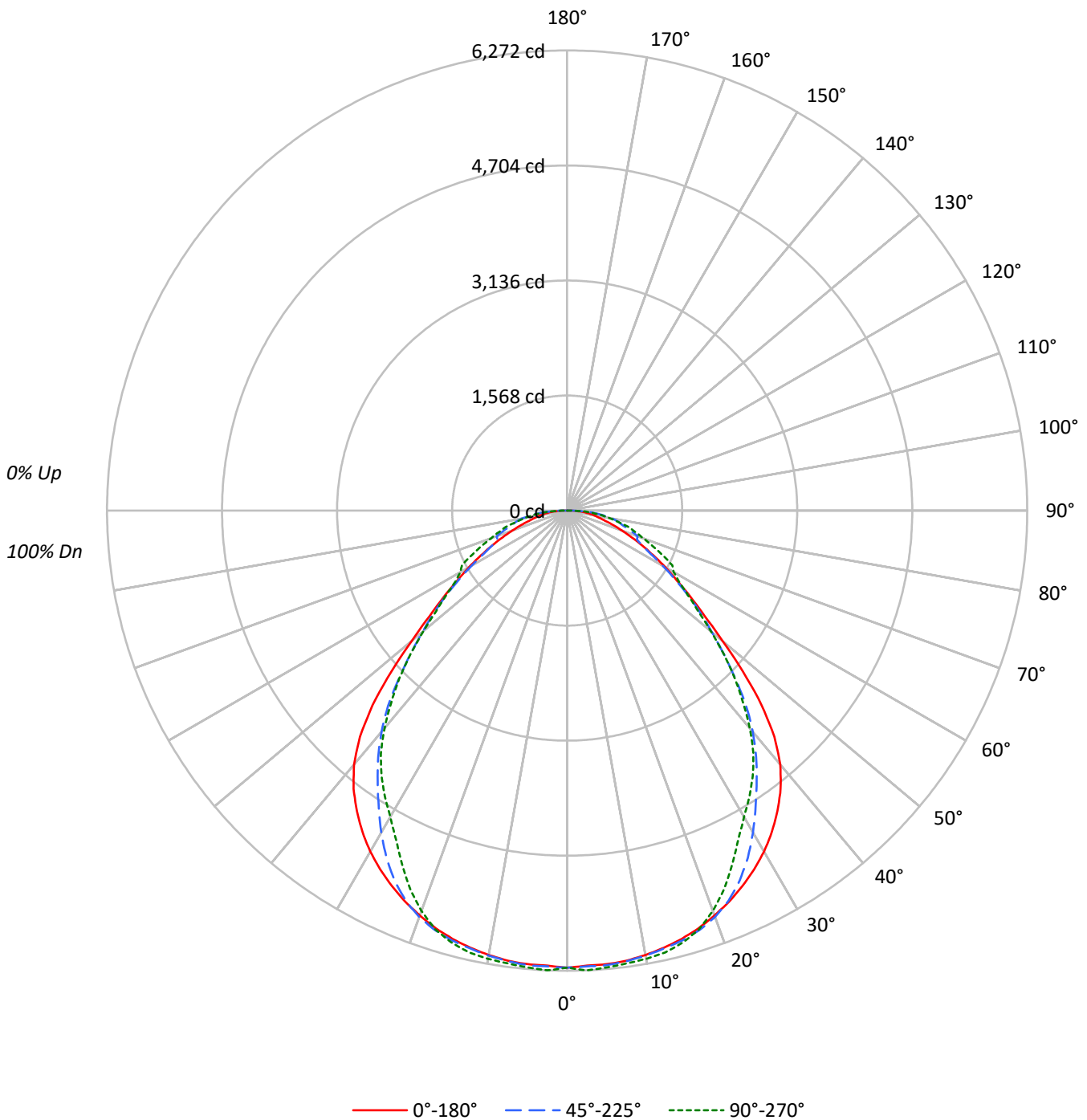
Lumens per Lamp: N/A
Luminaire Lumens: 14421.0 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 95.2
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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8383	8383	8383
5°	8382	8401	8442
10°	8403	8414	8476
15°	8416	8448	8489
20°	8408	8439	8314
25°	8386	8261	7901
30°	8337	7871	7487
35°	8211	7398	7244
40°	7937	6917	6803
45°	7134	6177	6154
50°	5786	5380	5343
55°	4804	4715	4713
60°	4160	4038	4515
65°	3605	3583	4551
70°	3109	4019	4338
75°	2787	4119	4522
80°	2897	4849	4537
85°	3290	5587	5184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.2	4.1
10°-20°	1713.2	11.9
20°-30°	2544.5	17.6
30°-40°	2888.7	20.0
40°-50°	2582.4	17.9
50°-60°	1785.5	12.4
60°-70°	1178.2	8.2
70°-80°	794.9	5.5
80°-90°	340.4	2.4
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°	4850.9	33.6
0°-40°	7739.7	53.7
0°-60°	12107.5	84.0
0°-90°	14421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6230	6230	6230	6230	6230	
5°	6206	6244	6220	6245	6250	591
15°	6042	6071	6064	6098	6094	1705
25°	5649	5703	5564	5398	5322	2603
35°	4999	4894	4504	4438	4410	3117
45°	3749	3432	3246	3271	3234	2851
55°	2048	1870	2010	1982	2009	1860
65°	1132	1005	1125	1316	1429	1130
75°	536	674	792	847	870	586
85°	213	296	362	364	336	222
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6230.3	6230.3	6230.3	6230.3	6230.3
2.5°	6209.2	6248.0	6219.0	6245.8	6271.9
5°	6206.3	6244.4	6219.7	6245.1	6250.1
7.5°	6188.7	6224.0	6195.0	6219.7	6225.4
10°	6150.6	6192.2	6158.4	6196.5	6203.5
12.5°	6101.2	6143.5	6113.9	6166.1	6168.9
15°	6041.9	6070.9	6064.5	6098.4	6094.2
17.5°	5967.2	6000.3	5995.4	6003.9	5984.1
20°	5871.9	5909.3	5893.8	5855.0	5806.3
22.5°	5769.6	5814.8	5753.4	5655.3	5586.9
25°	5649.0	5702.6	5564.3	5398.5	5322.3
27.5°	5515.6	5563.6	5333.6	5130.4	5051.4
30°	5366.1	5386.5	5066.2	4872.9	4819.3
32.5°	5193.2	5163.6	4780.5	4652.8	4621.8
35°	4999.2	4894.1	4503.9	4438.3	4410.1
37.5°	4780.5	4587.9	4230.9	4200.6	4170.9
40°	4518.8	4234.4	3938.1	3918.4	3873.2
42.5°	4180.8	3849.9	3612.9	3589.6	3549.4
45°	3749.1	3431.6	3246.0	3270.7	3234.0
47.5°	3252.4	3011.8	2894.0	2961.7	2894.0
50°	2764.2	2602.6	2570.2	2631.5	2552.5
52.5°	2364.1	2218.8	2285.8	2296.4	2249.2
55°	2048.1	1869.6	2010.0	1981.8	2009.3
57.5°	1772.9	1573.3	1746.1	1713.7	1808.2
60°	1545.8	1321.4	1500.6	1493.6	1677.7
62.5°	1322.8	1143.6	1287.5	1391.3	1617.7
65°	1132.3	1005.3	1125.3	1315.8	1429.4
67.5°	949.6	901.6	1029.3	1135.2	1259.3
70°	790.2	814.9	1021.6	1001.8	1102.7
72.5°	656.1	740.1	901.6	905.2	976.4
75°	536.2	674.5	792.3	846.6	869.9
77.5°	445.9	611.7	715.4	734.4	711.9
80°	373.9	539.0	625.8	617.3	585.6
82.5°	302.0	408.5	493.1	500.9	463.5
85°	213.1	296.3	361.9	364.0	335.8
87.5°	114.3	182.7	219.4	225.8	208.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)