

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-CLI-UNV-L850-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 (P23766)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-W-CLI-UNV-L850-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

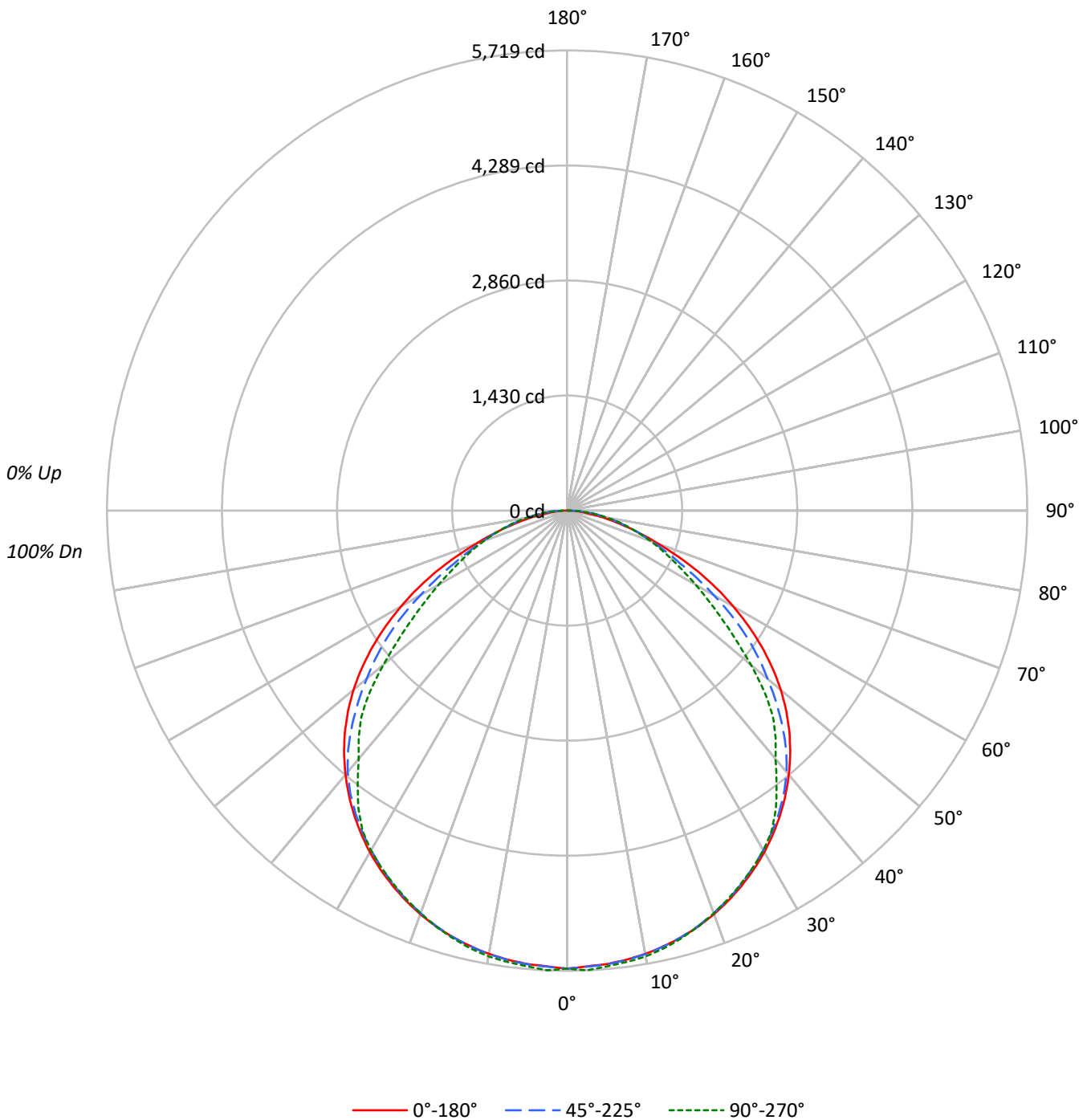
Lumens per Lamp: N/A
Luminaire Lumens: 15295.0 lumens
Efficiency: N/A
Efficacy: 166.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7660	7660	7660
5°	7639	7645	7679
10°	7643	7647	7687
15°	7644	7643	7662
20°	7642	7625	7627
25°	7631	7602	7593
30°	7618	7573	7577
35°	7583	7536	7429
40°	7529	7452	7076
45°	7433	7195	6881
50°	7254	6812	6231
55°	6924	6371	5510
60°	6426	5685	4969
65°	5712	4922	4569
70°	4740	4399	4307
75°	3833	4025	4075
80°	3045	3849	3834
85°	2385	4136	3946



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.9	3.5
10°-20°	1552.9	10.2
20°-30°	2367.9	15.5
30°-40°	2864.9	18.7
40°-50°	2901.8	19.0
50°-60°	2398.4	15.7
60°-70°	1584.1	10.4
70°-80°	826.0	5.4
80°-90°	259.0	1.7
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°	4460.7	29.2
0°-40°	7325.6	47.9
0°-60°	12625.9	82.5
0°-90°	15295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5693	5693	5693	5693	5693	
5°	5656	5690	5660	5685	5685	538
15°	5488	5516	5487	5504	5500	1550
25°	5140	5160	5121	5134	5115	2370
35°	4616	4623	4588	4582	4523	2888
45°	3906	3896	3781	3664	3616	3008
55°	2952	2908	2716	2452	2349	2631
65°	1794	1742	1546	1445	1435	1772
75°	737	750	774	785	784	803
85°	154	199	268	266	256	187
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5692.9	5692.9	5692.9	5692.9	5692.9
2.5°	5669.0	5702.5	5674.4	5699.0	5718.9
5°	5656.0	5690.2	5660.1	5684.7	5685.4
7.5°	5630.7	5664.9	5634.1	5658.7	5658.0
10°	5594.5	5626.6	5597.2	5626.6	5626.6
12.5°	5545.3	5576.7	5548.0	5575.3	5571.2
15°	5487.9	5515.9	5487.2	5504.3	5500.2
17.5°	5420.2	5445.5	5413.4	5427.7	5419.5
20°	5337.5	5360.7	5325.2	5343.7	5326.6
22.5°	5244.6	5266.4	5230.2	5243.9	5224.7
25°	5140.0	5160.5	5120.9	5133.8	5114.7
27.5°	5027.2	5045.7	5001.3	5017.0	5001.9
30°	4903.5	4912.4	4874.1	4894.7	4876.9
32.5°	4765.5	4771.0	4737.5	4755.9	4725.8
35°	4616.5	4622.7	4587.8	4581.6	4522.9
37.5°	4457.3	4460.0	4427.2	4371.8	4274.8
40°	4286.4	4285.0	4242.7	4114.9	4028.8
42.5°	4103.9	4103.3	4028.8	3883.2	3834.0
45°	3906.4	3896.2	3781.4	3663.8	3616.0
47.5°	3694.6	3683.6	3523.0	3429.4	3320.7
50°	3465.6	3446.5	3254.4	3126.6	2977.0
52.5°	3218.9	3189.5	2994.1	2787.7	2646.2
55°	2951.7	2908.0	2715.9	2452.1	2348.9
57.5°	2673.5	2608.6	2422.0	2165.1	2081.0
60°	2387.9	2315.4	2112.5	1901.3	1846.6
62.5°	2094.0	2022.2	1815.2	1655.9	1625.9
65°	1794.0	1742.0	1545.9	1445.4	1435.2
67.5°	1486.4	1468.0	1318.3	1267.1	1263.0
70°	1204.9	1201.5	1118.1	1092.1	1094.8
72.5°	962.9	958.8	946.5	933.6	934.2
75°	737.4	750.4	774.3	784.6	783.9
77.5°	550.2	576.8	627.4	647.9	644.5
80°	393.0	432.6	496.8	516.0	494.8
82.5°	261.7	303.4	379.3	382.0	364.9
85°	154.5	198.9	267.9	265.9	255.6
87.5°	76.5	119.6	160.6	153.8	146.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)