

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-CLWG-UNV-L835-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 (P33385)
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-CLWG-UNV-L835-ED1-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

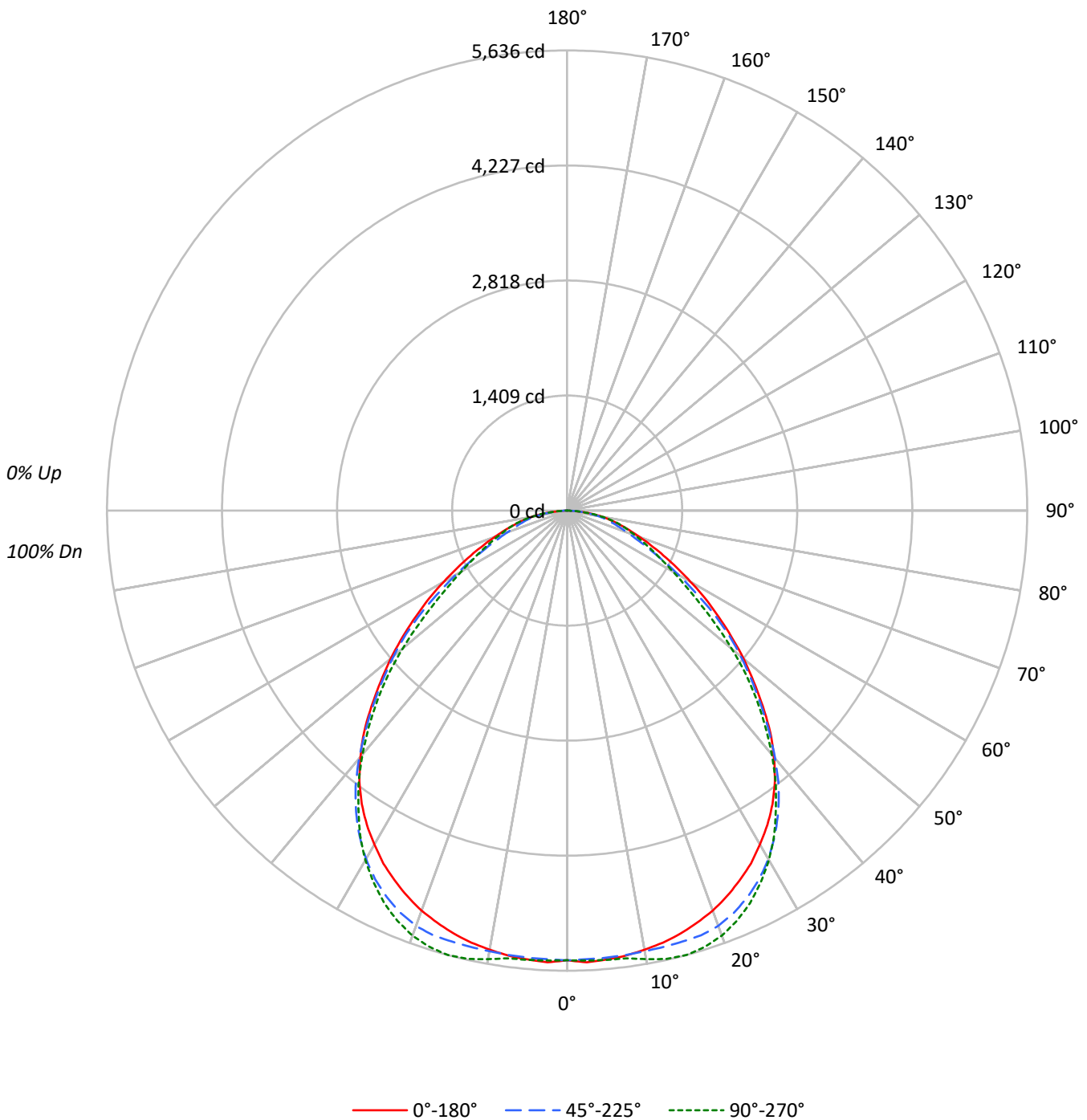
Lumens per Lamp: N/A
Luminaire Lumens: 13737.0 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	7411	7411	7411
5°	7455	7424	7461
10°	7461	7487	7621
15°	7471	7611	7851
20°	7466	7751	7932
25°	7420	7758	7871
30°	7335	7655	7679
35°	7204	7407	7318
40°	6920	6962	6852
45°	6447	6380	6250
50°	5903	5808	5511
55°	5302	5106	4659
60°	4702	4225	4022
65°	4143	3510	3650
70°	3705	3046	3476
75°	3471	2962	3516
80°	3380	2994	3347
85°	2697	2368	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.7	3.8
10°-20°	1545.6	11.3
20°-30°	2377.7	17.3
30°-40°	2774.9	20.2
40°-50°	2578.6	18.8
50°-60°	1911.3	13.9
60°-70°	1168.4	8.5
70°-80°	665.5	4.8
80°-90°	190.3	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°	4447.9	32.4
0°-40°	7222.8	52.6
0°-60°	11712.7	85.3
0°-90°	13737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13737.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5508	5508	5508	5508	5508	
5°	5520	5494	5497	5492	5524	525
15°	5363	5360	5464	5572	5636	1514
25°	4998	5036	5225	5270	5302	2302
35°	4386	4420	4509	4472	4455	2733
45°	3388	3408	3353	3300	3285	2611
55°	2260	2204	2176	2022	1986	2029
65°	1301	1182	1102	1132	1146	1302
75°	668	626	570	649	676	715
85°	175	170	153	159	159	201
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5508.1	5508.1	5508.1	5508.1	5508.1
2.5°	5538.0	5506.7	5501.0	5488.3	5516.7
5°	5519.5	5493.9	5496.8	5492.5	5523.8
7.5°	5498.2	5479.7	5491.1	5489.7	5530.9
10°	5461.3	5451.3	5479.7	5511.0	5577.8
12.5°	5420.1	5410.1	5472.6	5552.2	5624.6
15°	5363.2	5360.4	5464.1	5572.1	5636.0
17.5°	5292.2	5296.5	5454.2	5546.5	5603.3
20°	5214.1	5221.2	5413.0	5488.3	5539.4
22.5°	5113.2	5137.3	5333.4	5395.9	5435.7
25°	4998.1	5036.5	5225.4	5269.5	5302.1
27.5°	4874.5	4912.9	5091.9	5114.6	5133.1
30°	4721.1	4775.0	4927.1	4929.9	4942.7
32.5°	4564.8	4613.1	4729.6	4716.8	4719.6
35°	4385.8	4419.9	4509.4	4472.4	4455.4
37.5°	4179.8	4198.2	4255.1	4199.7	4196.8
40°	3939.7	3963.8	3963.8	3887.1	3901.3
42.5°	3683.9	3692.5	3656.9	3584.5	3595.8
45°	3388.4	3408.3	3352.9	3300.3	3284.7
47.5°	3095.8	3115.6	3057.4	2996.3	2969.3
50°	2820.1	2810.2	2774.7	2671.0	2632.6
52.5°	2534.6	2503.3	2489.1	2337.1	2293.0
55°	2260.4	2203.5	2176.5	2021.7	1986.2
57.5°	2006.1	1903.8	1852.6	1731.9	1717.7
60°	1747.5	1632.4	1569.9	1491.8	1494.6
62.5°	1513.1	1392.3	1317.0	1294.3	1304.2
65°	1301.4	1182.0	1102.5	1132.3	1146.5
67.5°	1109.6	1011.6	922.0	991.7	1005.9
70°	941.9	863.8	774.3	876.6	883.7
72.5°	802.7	738.8	663.5	760.1	775.7
75°	667.7	626.5	569.7	649.3	676.3
77.5°	549.8	517.1	484.5	532.8	562.6
80°	436.2	403.5	386.4	412.0	431.9
82.5°	308.3	287.0	269.9	288.4	298.4
85°	174.7	170.5	153.4	159.1	159.1
87.5°	39.8	45.5	51.1	46.9	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)