

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-CLWG-UNV-L740-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-LD5-15SE-W-CLWG-UNV-L740-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: 13793.0 lumens
Efficiency: N/A
Efficacy: 144.9 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

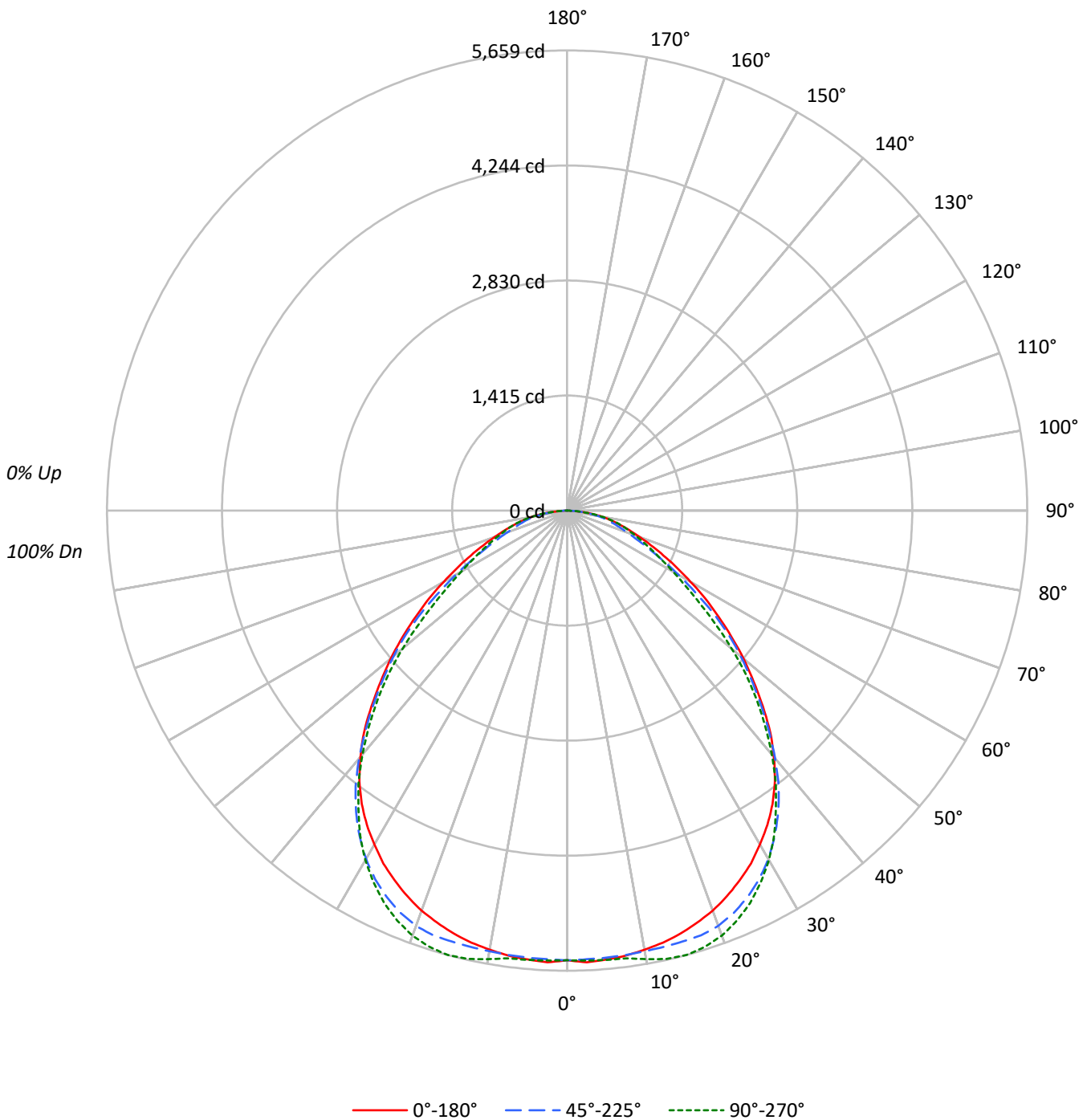
Input Watts (W): 95.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7441	7441	7441
5°	7485	7454	7491
10°	7492	7517	7652
15°	7501	7642	7883
20°	7496	7782	7964
25°	7450	7789	7904
30°	7365	7686	7710
35°	7233	7437	7348
40°	6948	6991	6880
45°	6474	6406	6276
50°	5927	5832	5533
55°	5324	5126	4678
60°	4722	4242	4038
65°	4160	3524	3665
70°	3721	3059	3491
75°	3486	2974	3530
80°	3393	3006	3360
85°	2709	2379	2467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.8	3.8
10°-20°	1551.9	11.3
20°-30°	2387.3	17.3
30°-40°	2786.2	20.2
40°-50°	2589.1	18.8
50°-60°	1919.1	13.9
60°-70°	1173.2	8.5
70°-80°	668.2	4.8
80°-90°	191.1	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°	4466.1	32.4
0°-40°	7252.2	52.6
0°-60°	11760.4	85.3
0°-90°	13793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5531	5531	5531	5531	5531	
5°	5542	5516	5519	5515	5546	527
15°	5385	5382	5486	5595	5659	1520
25°	5018	5057	5247	5291	5324	2312
35°	4404	4438	4528	4491	4474	2744
45°	3402	3422	3367	3314	3298	2622
55°	2270	2212	2185	2030	1994	2037
65°	1307	1187	1107	1137	1151	1308
75°	670	629	572	652	679	718
85°	176	171	154	160	160	202
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5530.6	5530.6	5530.6	5530.6	5530.6
2.5°	5560.6	5529.2	5523.5	5510.6	5539.2
5°	5542.0	5516.3	5519.2	5514.9	5546.3
7.5°	5520.6	5502.1	5513.5	5512.1	5553.4
10°	5483.5	5473.5	5502.1	5533.4	5600.5
12.5°	5442.2	5432.2	5494.9	5574.8	5647.6
15°	5385.1	5382.2	5486.4	5594.8	5659.0
17.5°	5313.8	5318.0	5476.4	5569.1	5626.2
20°	5235.3	5242.4	5435.0	5510.6	5562.0
22.5°	5134.0	5158.3	5355.1	5417.9	5457.8
25°	5018.5	5057.0	5246.7	5290.9	5323.8
27.5°	4894.4	4932.9	5112.6	5135.5	5154.0
30°	4740.3	4794.5	4947.2	4950.0	4962.8
32.5°	4583.4	4631.9	4748.9	4736.0	4738.9
35°	4403.6	4437.9	4527.8	4490.7	4473.5
37.5°	4196.8	4215.3	4272.4	4216.8	4213.9
40°	3955.7	3980.0	3980.0	3902.9	3917.2
42.5°	3699.0	3707.5	3671.8	3599.1	3610.5
45°	3402.2	3422.2	3366.6	3313.8	3298.1
47.5°	3108.4	3128.3	3069.9	3008.5	2981.4
50°	2831.6	2821.6	2786.0	2681.8	2643.3
52.5°	2544.9	2513.5	2499.3	2346.6	2302.4
55°	2269.6	2212.5	2185.4	2029.9	1994.3
57.5°	2014.2	1911.5	1860.2	1738.9	1724.7
60°	1754.6	1639.1	1576.3	1497.8	1500.7
62.5°	1519.2	1398.0	1322.4	1299.6	1309.5
65°	1306.7	1186.9	1107.0	1136.9	1151.2
67.5°	1114.1	1015.7	925.8	995.7	1010.0
70°	945.8	867.3	777.5	880.2	887.3
72.5°	806.0	741.8	666.2	763.2	778.9
75°	670.5	629.1	572.0	651.9	679.0
77.5°	552.1	519.3	486.4	534.9	564.9
80°	437.9	405.1	388.0	413.7	433.7
82.5°	309.6	288.2	271.0	289.6	299.6
85°	175.5	171.2	154.1	159.8	159.8
87.5°	39.9	45.6	51.4	47.1	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)