

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-L735-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-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

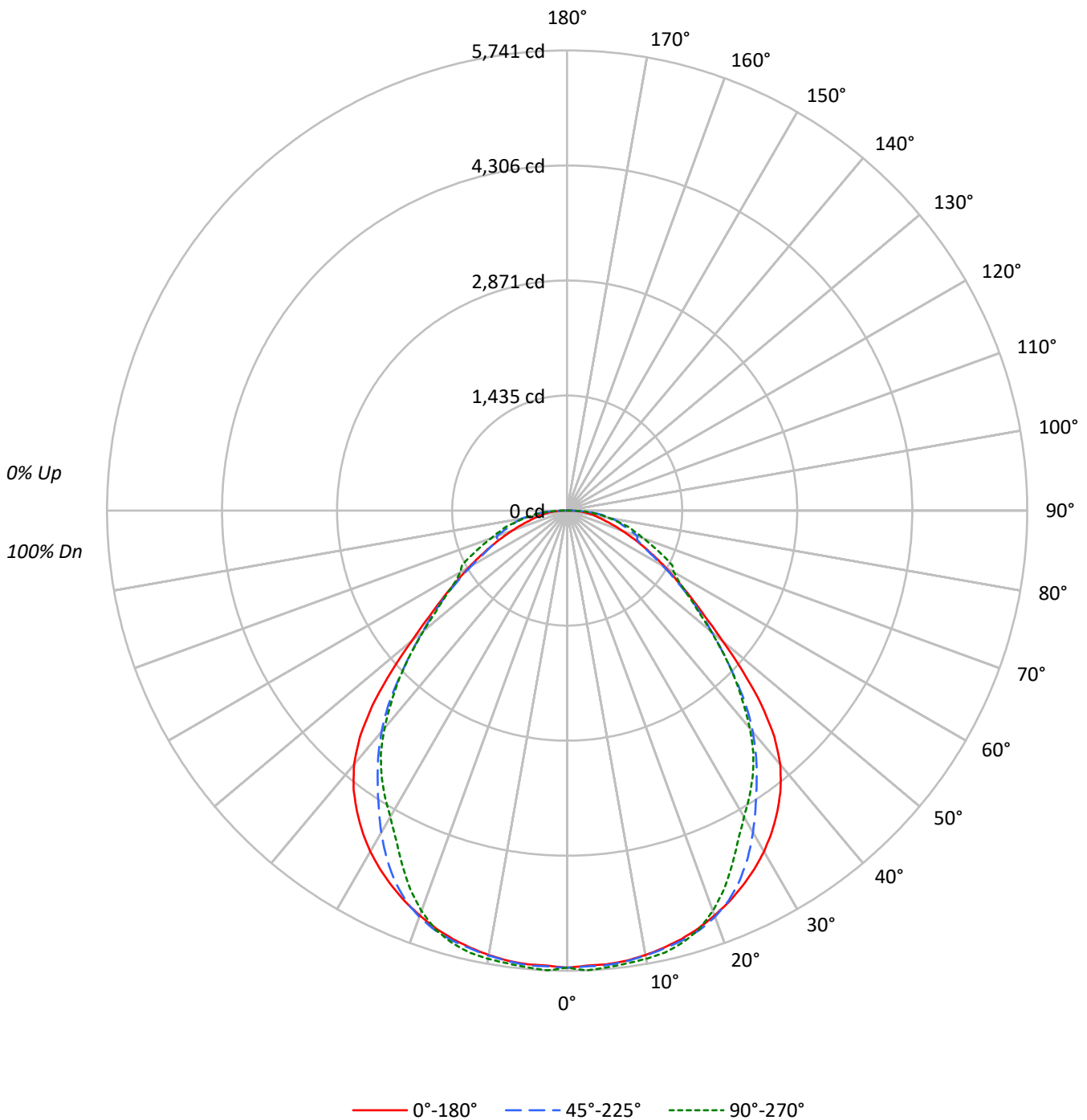
Lumens per Lamp: N/A
Luminaire Lumens: 13200.0 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	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	66	58	52	64	57	51	62	55	51	60	54	50					48				
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45					43				
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36					34				
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7673	7673	7673
5°	7673	7689	7727
10°	7692	7701	7758
15°	7704	7732	7770
20°	7696	7724	7610
25°	7676	7561	7232
30°	7631	7205	6854
35°	7516	6772	6630
40°	7265	6331	6227
45°	6530	5654	5633
50°	5296	4924	4891
55°	4398	4316	4314
60°	3807	3696	4132
65°	3300	3279	4165
70°	2845	3679	3971
75°	2551	3770	4139
80°	2652	4438	4153
85°	3010	5115	4746



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.0	4.1
10°-20°	1568.2	11.9
20°-30°	2329.1	17.6
30°-40°	2644.1	20.0
40°-50°	2363.8	17.9
50°-60°	1634.3	12.4
60°-70°	1078.4	8.2
70°-80°	727.5	5.5
80°-90°	311.6	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°	4440.2	33.6
0°-40°	7084.4	53.7
0°-60°	11082.4	84.0
0°-90°	13200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13200.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5703	5703	5703	5703	5703	
5°	5681	5716	5693	5716	5721	541
15°	5530	5557	5551	5582	5578	1561
25°	5171	5220	5093	4941	4872	2383
35°	4576	4480	4123	4062	4037	2853
45°	3432	3141	2971	2994	2960	2610
55°	1875	1711	1840	1814	1839	1703
65°	1036	920	1030	1204	1308	1034
75°	491	617	725	775	796	536
85°	195	271	331	333	307	203
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5702.8	5702.8	5702.8	5702.8	5702.8
2.5°	5683.4	5719.0	5692.5	5717.0	5740.9
5°	5680.9	5715.7	5693.1	5716.4	5720.9
7.5°	5664.7	5697.0	5670.5	5693.1	5698.3
10°	5629.8	5667.9	5636.9	5671.8	5678.3
12.5°	5584.6	5623.4	5596.3	5644.0	5646.6
15°	5530.4	5556.9	5551.1	5582.0	5578.2
17.5°	5461.9	5492.3	5487.8	5495.5	5477.4
20°	5374.8	5409.0	5394.8	5359.3	5314.7
22.5°	5281.1	5322.4	5266.3	5176.5	5113.9
25°	5170.7	5219.8	5093.2	4941.4	4871.7
27.5°	5048.6	5092.6	4882.0	4696.1	4623.7
30°	4911.7	4930.5	4637.3	4460.3	4411.3
32.5°	4753.5	4726.4	4375.7	4258.9	4230.4
35°	4575.9	4479.7	4122.6	4062.5	4036.7
37.5°	4375.7	4199.5	3872.7	3844.9	3817.8
40°	4136.2	3875.9	3604.7	3586.6	3545.3
42.5°	3826.8	3524.0	3307.0	3285.7	3248.9
45°	3431.6	3141.0	2971.2	2993.8	2960.2
47.5°	2977.0	2756.8	2649.0	2710.9	2649.0
50°	2530.1	2382.3	2352.5	2408.7	2336.4
52.5°	2164.0	2031.0	2092.3	2102.0	2058.7
55°	1874.7	1711.3	1839.8	1814.0	1839.2
57.5°	1622.8	1440.1	1598.3	1568.6	1655.1
60°	1414.9	1209.5	1373.6	1367.1	1535.6
62.5°	1210.8	1046.8	1178.5	1273.5	1480.8
65°	1036.5	920.2	1030.0	1204.4	1308.3
67.5°	869.2	825.3	942.2	1039.0	1152.7
70°	723.3	745.9	935.1	917.0	1009.3
72.5°	600.6	677.4	825.3	828.5	893.7
75°	490.8	617.4	725.2	774.9	796.2
77.5°	408.1	559.9	654.8	672.2	651.6
80°	342.3	493.4	572.8	565.1	536.0
82.5°	276.4	373.9	451.4	458.5	424.3
85°	195.0	271.2	331.3	333.2	307.4
87.5°	104.6	167.3	200.8	206.6	191.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)