

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-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 (P23760)
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-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

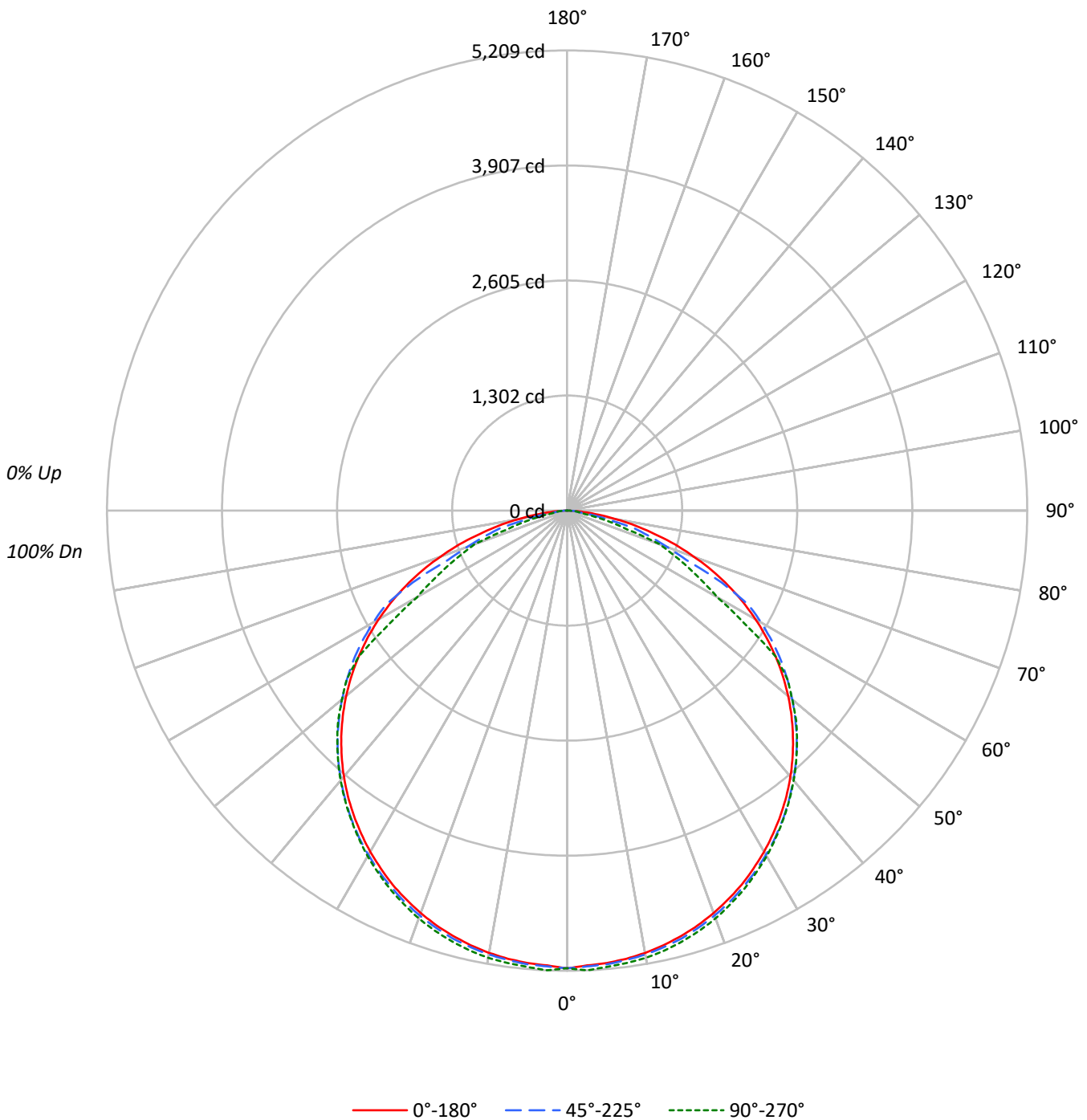
Lumens per Lamp: N/A
Luminaire Lumens: 14958.0 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6971	6971	6971
5°	6943	6962	7001
10°	6947	6971	7024
15°	6945	6982	7030
20°	6941	6986	7035
25°	6939	6988	7027
30°	6927	6994	7020
35°	6918	6997	7007
40°	6905	6997	7008
45°	6879	6994	7002
50°	6838	6964	6963
55°	6758	6927	6755
60°	6633	6825	5286
65°	6412	6143	4762
70°	6007	4726	4389
75°	5319	4120	2735
80°	4380	2426	1223
85°	2887	1487	1601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.7	3.3
10°-20°	1418.5	9.5
20°-30°	2174.8	14.5
30°-40°	2667.2	17.8
40°-50°	2832.1	18.9
50°-60°	2586.8	17.3
60°-70°	1801.4	12.0
70°-80°	840.2	5.6
80°-90°	145.3	1.0
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°	4085.0	27.3
0°-40°	6752.2	45.1
0°-60°	12171.1	81.4
0°-90°	14958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14958.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5181	5181	5181	5181	5181	
5°	5140	5176	5155	5180	5184	489
15°	4986	5020	5012	5043	5047	1408
25°	4674	4715	4707	4742	4733	2154
35°	4212	4260	4260	4289	4266	2636
45°	3615	3670	3676	3699	3680	2788
55°	2881	2939	2953	2958	2880	2573
65°	2014	2076	1929	1534	1496	1987
75°	1023	1088	793	549	526	1094
85°	187	123	96	103	104	242
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5181.3	5181.3	5181.3	5181.3	5181.3
2.5°	5154.0	5186.9	5165.2	5188.8	5208.6
5°	5140.3	5176.3	5154.6	5179.5	5183.8
7.5°	5118.0	5152.1	5132.2	5159.6	5166.4
10°	5084.4	5118.0	5102.4	5134.7	5140.9
12.5°	5039.1	5073.2	5061.4	5096.8	5101.2
15°	4985.6	5020.4	5012.4	5042.8	5047.1
17.5°	4922.9	4958.9	4949.6	4981.9	4985.0
20°	4847.7	4886.9	4878.8	4916.7	4913.0
22.5°	4763.3	4804.9	4798.7	4836.6	4825.4
25°	4673.8	4714.8	4707.3	4742.1	4733.4
27.5°	4568.8	4614.2	4607.3	4640.9	4627.2
30°	4458.3	4504.2	4501.7	4532.2	4518.5
32.5°	4339.0	4388.1	4385.6	4415.4	4394.3
35°	4211.6	4260.1	4260.1	4288.7	4265.7
37.5°	4076.8	4125.9	4126.5	4153.9	4132.1
40°	3931.5	3980.6	3983.7	4009.8	3989.9
42.5°	3778.7	3832.1	3834.6	3858.2	3839.6
45°	3615.3	3670.0	3675.6	3699.2	3679.9
47.5°	3444.5	3499.8	3504.7	3530.2	3516.5
50°	3266.8	3320.2	3327.1	3348.2	3326.5
52.5°	3079.2	3133.9	3143.2	3156.2	3146.3
55°	2881.1	2938.8	2953.1	2958.1	2879.8
57.5°	2676.1	2735.1	2748.7	2634.5	2382.9
60°	2464.9	2523.3	2536.3	2143.1	1964.2
62.5°	2245.0	2302.1	2316.4	1776.0	1718.8
65°	2013.9	2076.0	1929.4	1534.3	1495.8
67.5°	1776.6	1840.6	1459.2	1315.1	1292.1
70°	1526.9	1591.5	1201.4	1121.2	1115.7
72.5°	1287.1	1334.9	985.8	849.8	715.6
75°	1023.1	1087.7	792.6	549.1	526.1
77.5°	793.3	685.8	478.3	402.5	317.4
80°	565.3	458.4	313.1	167.1	157.8
82.5°	358.4	299.4	123.0	126.1	131.7
85°	187.0	123.0	96.3	103.1	103.7
87.5°	60.3	52.8	57.8	57.1	56.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)