

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-LD5-60SE-W-AI-UNV-L740-ED4-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-LD5-60SE-W-AI-UNV-L740-ED4-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

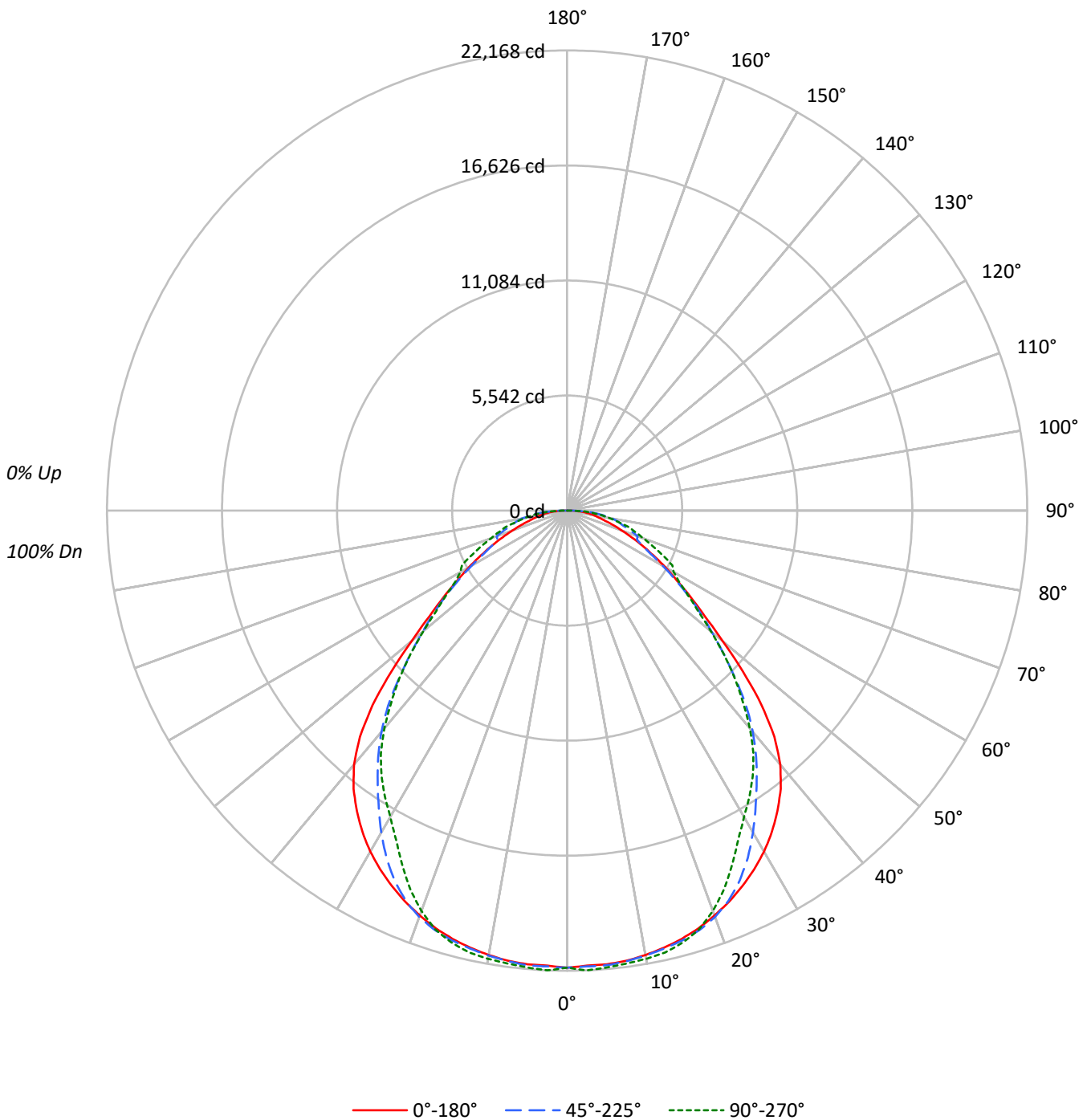
Lumens per Lamp: N/A
Luminaire Lumens: 50971.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 386
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	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°	29629	29629	29629
5°	29628	29692	29837
10°	29701	29739	29957
15°	29747	29858	30004
20°	29717	29828	29385
25°	29642	29197	27928
30°	29467	27820	26464
35°	29023	26148	25603
40°	28053	24448	24045
45°	25214	21831	21750
50°	20451	19015	18885
55°	16981	16665	16659
60°	14702	14273	15957
65°	12742	12663	16084
70°	10987	14204	15333
75°	9852	14558	15984
80°	10240	17138	16037
85°	11626	19748	18325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2096.7	4.1
10°-20°	6055.4	11.9
20°-30°	8993.6	17.6
30°-40°	10210.2	20.0
40°-50°	9127.5	17.9
50°-60°	6310.8	12.4
60°-70°	4164.2	8.2
70°-80°	2809.4	5.5
80°-90°	1203.2	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°	17145.7	33.6
0°-40°	27355.9	53.7
0°-60°	42794.2	84.0
0°-90°	50971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	50971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22021	22021	22021	22021	22021	
5°	21936	22071	21984	22073	22091	###
15°	21355	21458	21435	21555	21540	6028
25°	19966	20156	19667	19081	18812	9200
35°	17670	17298	15919	15687	15588	11019
45°	13251	12129	11473	11560	11431	10077
55°	7239	6608	7104	7004	7102	6575
65°	4002	3553	3977	4651	5052	3994
75°	1895	2384	2800	2992	3075	2070
85°	753	1047	1279	1287	1187	785
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22021.0	22021.0	22021.0	22021.0	22021.0
2.5°	21946.2	22083.4	21981.2	22075.9	22168.2
5°	21936.3	22070.9	21983.6	22073.4	22090.9
7.5°	21873.9	21998.6	21896.4	21983.6	22003.6
10°	21739.3	21886.4	21766.7	21901.4	21926.3
12.5°	21564.7	21714.3	21609.6	21794.1	21804.1
15°	21355.3	21457.5	21435.1	21554.7	21539.8
17.5°	21090.9	21208.1	21190.7	21220.6	21150.8
20°	20754.3	20886.5	20831.6	20694.4	20522.4
22.5°	20392.7	20552.3	20335.4	19988.8	19746.9
25°	19966.3	20155.8	19667.1	19081.1	18811.8
27.5°	19495.0	19664.6	18851.7	18133.5	17854.2
30°	18966.4	19038.7	17906.6	17223.3	17033.8
32.5°	18355.4	18250.7	16896.7	16445.3	16335.6
35°	17669.7	17298.2	15919.2	15687.3	15587.5
37.5°	16896.7	16215.9	14954.2	14846.9	14742.2
40°	15971.6	14966.6	13919.3	13849.5	13689.9
42.5°	14777.1	13607.6	12769.8	12687.5	12545.3
45°	13251.0	12128.9	11473.1	11560.4	11430.7
47.5°	11495.5	10645.2	10228.8	10468.2	10228.8
50°	9770.0	9198.9	9084.2	9301.2	9021.9
52.5°	8356.1	7842.4	8079.3	8116.7	7949.6
55°	7238.9	6608.1	7104.3	7004.5	7101.8
57.5°	6266.4	5560.7	6171.7	6057.0	6391.1
60°	5463.5	4670.5	5303.9	5279.0	5929.8
62.5°	4675.5	4042.1	4550.8	4917.4	5717.8
65°	4002.2	3553.4	3977.3	4650.6	5052.0
67.5°	3356.4	3186.8	3638.2	4012.2	4451.1
70°	2792.8	2880.1	3610.7	3540.9	3897.5
72.5°	2319.1	2615.8	3186.8	3199.3	3451.2
75°	1895.1	2383.9	2800.3	2992.3	3074.6
77.5°	1576.0	2162.0	2528.5	2595.8	2516.1
80°	1321.6	1905.1	2211.8	2181.9	2069.7
82.5°	1067.3	1443.8	1743.0	1770.5	1638.3
85°	753.1	1047.3	1279.2	1286.7	1187.0
87.5°	404.0	645.8	775.5	798.0	738.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)