

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-LD5-18HE-W-AI-UNV-L750-ED2-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-LD5-18HE-W-AI-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

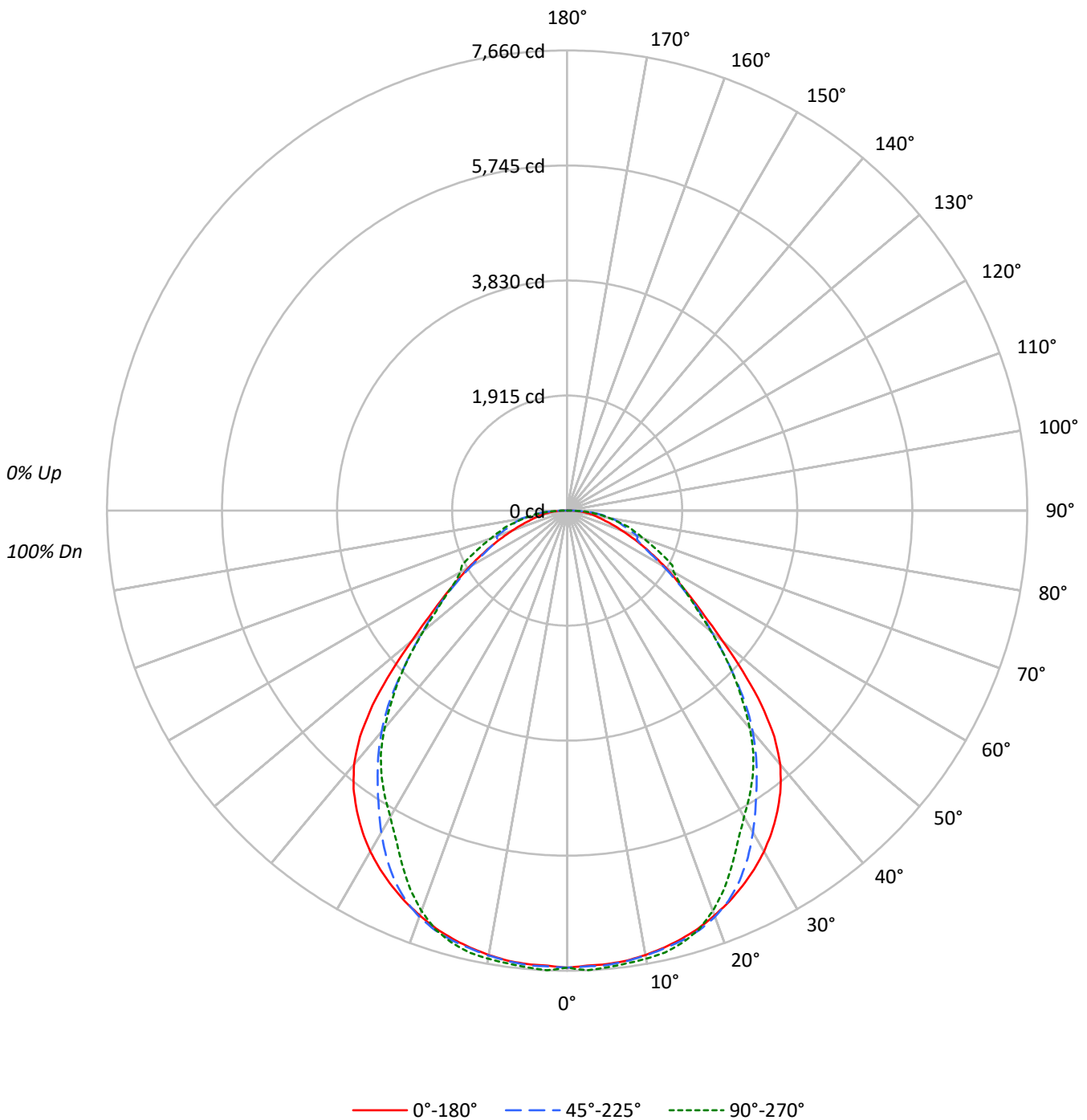
Lumens per Lamp: N/A
Luminaire Lumens: 17612.0 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 111.9
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					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10238	10238	10238
5°	10237	10259	10309
10°	10263	10276	10351
15°	10278	10317	10367
20°	10268	10306	10153
25°	10242	10089	9650
30°	10182	9613	9144
35°	10028	9035	8847
40°	9693	8447	8308
45°	8712	7543	7515
50°	7066	6570	6525
55°	5868	5758	5756
60°	5080	4932	5514
65°	4403	4375	5557
70°	3796	4908	5298
75°	3404	5030	5523
80°	3539	5922	5541
85°	4017	6823	6331



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.5	4.1
10°-20°	2092.3	11.9
20°-30°	3107.5	17.6
30°-40°	3527.9	20.0
40°-50°	3153.8	17.9
50°-60°	2180.6	12.4
60°-70°	1438.9	8.2
70°-80°	970.7	5.5
80°-90°	415.8	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°	5924.3	33.6
0°-40°	9452.3	53.7
0°-60°	14786.6	84.0
0°-90°	17612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7609	7609	7609	7609	7609	
5°	7580	7626	7596	7627	7633	721
15°	7379	7414	7406	7448	7443	2083
25°	6899	6964	6796	6593	6500	3179
35°	6105	5977	5501	5420	5386	3807
45°	4579	4191	3964	3994	3950	3482
55°	2501	2283	2455	2420	2454	2272
65°	1383	1228	1374	1607	1746	1380
75°	655	824	968	1034	1062	715
85°	260	362	442	445	410	271
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7608.9	7608.9	7608.9	7608.9	7608.9
2.5°	7583.1	7630.5	7595.1	7627.9	7659.8
5°	7579.6	7626.2	7596.0	7627.0	7633.1
7.5°	7558.1	7601.2	7565.8	7596.0	7602.9
10°	7511.6	7562.4	7521.0	7567.6	7576.2
12.5°	7451.3	7502.9	7466.8	7530.5	7534.0
15°	7378.9	7414.2	7406.4	7447.8	7442.6
17.5°	7287.5	7328.0	7322.0	7332.3	7308.2
20°	7171.2	7216.9	7197.9	7150.5	7091.1
22.5°	7046.3	7101.4	7026.5	6906.7	6823.1
25°	6899.0	6964.4	6795.6	6593.1	6500.0
27.5°	6736.1	6794.7	6513.8	6265.7	6169.2
30°	6553.4	6578.4	6187.3	5951.2	5885.7
32.5°	6342.4	6306.2	5838.3	5682.4	5644.4
35°	6105.4	5977.0	5500.6	5420.4	5386.0
37.5°	5838.3	5603.1	5167.1	5130.1	5093.9
40°	5518.6	5171.4	4809.5	4785.4	4730.3
42.5°	5105.9	4701.8	4412.3	4383.9	4334.8
45°	4578.6	4190.9	3964.3	3994.5	3949.6
47.5°	3972.0	3678.2	3534.3	3617.1	3534.3
50°	3375.8	3178.5	3138.9	3213.8	3117.3
52.5°	2887.3	2709.8	2791.6	2804.6	2746.8
55°	2501.3	2283.3	2454.7	2420.3	2453.9
57.5°	2165.2	1921.4	2132.5	2092.9	2208.3
60°	1887.8	1613.8	1832.7	1824.0	2048.9
62.5°	1615.5	1396.7	1572.4	1699.1	1975.7
65°	1382.9	1227.8	1374.3	1606.9	1745.6
67.5°	1159.7	1101.1	1257.1	1386.3	1538.0
70°	965.0	995.2	1247.6	1223.5	1346.7
72.5°	801.3	903.8	1101.1	1105.5	1192.5
75°	654.8	823.7	967.6	1033.9	1062.4
77.5°	544.5	747.0	873.7	896.9	869.4
80°	456.7	658.3	764.3	753.9	715.1
82.5°	368.8	498.9	602.3	611.7	566.1
85°	260.2	361.9	442.0	444.6	410.1
87.5°	139.6	223.2	268.0	275.7	255.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)