

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-LD5-18SE-N-CL-UNV-L750-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 (P23768)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CL-UNV-L750-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

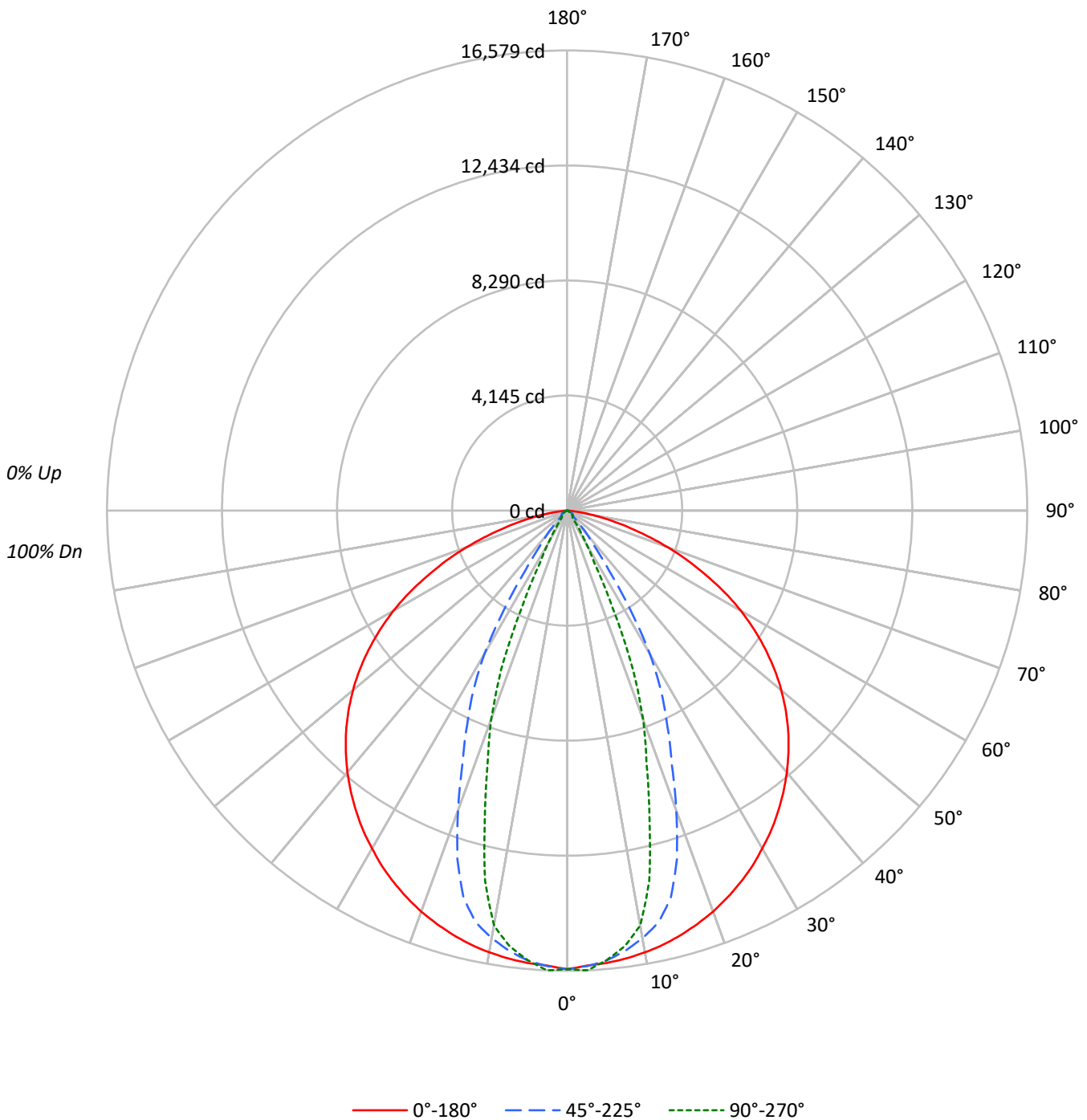
Lumens per Lamp: N/A
Luminaire Lumens: 17672.0 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 121.76
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				90
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				73
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				66
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47				47
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22233	22233	22233
5°	22096	21981	21965
10°	22081	21373	20742
15°	22056	20098	15949
20°	22013	16447	11440
25°	21944	12672	5813
30°	21840	9248	2115
35°	21762	4247	736
40°	21628	1928	508
45°	21436	719	515
50°	21094	522	542
55°	20470	549	413
60°	19452	587	364
65°	17641	447	296
70°	15125	323	273
75°	11561	286	259
80°	7233	269	282
85°	2285	313	378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1538.3	8.7
10°-20°	3875.2	21.9
20°-30°	4220.3	23.9
30°-40°	3157.0	17.9
40°-50°	2270.0	12.8
50°-60°	1394.1	7.9
60°-70°	802.2	4.5
70°-80°	358.1	2.0
80°-90°	56.8	0.3
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°	9633.9	54.5
0°-40°	12790.9	72.4
0°-60°	16455.0	93.1
0°-90°	17672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16524	16524	16524	16524	16524	
5°	16360	16437	16274	16290	16262	###
15°	15834	15530	14428	12392	11450	4470
25°	14781	13721	8536	5477	3916	6814
35°	13249	9502	2586	760	448	8288
45°	11265	5339	378	280	271	8678
55°	8726	1109	234	227	176	7780
65°	5541	122	140	117	93	5485
75°	2224	74	55	57	50	2413
85°	148	14	20	26	24	295
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16523.8	16523.8	16523.8	16523.8	16523.8
2.5°	16408.8	16516.2	16425.7	16506.9	16578.7
5°	16359.8	16436.7	16274.4	16289.6	16262.5
7.5°	16275.2	16293.8	16000.4	15887.1	15832.1
10°	16161.9	16112.0	15643.6	15373.8	15181.9
12.5°	16019.0	15854.1	15199.7	14236.6	13662.4
15°	15833.8	15530.3	14428.5	12391.6	11449.6
17.5°	15613.1	15192.0	13151.7	10327.6	9512.5
20°	15373.8	14818.3	11486.8	8781.1	7989.6
22.5°	15091.4	14340.6	9844.8	7303.0	6216.5
25°	14781.1	13720.8	8535.9	5476.6	3915.8
27.5°	14446.3	12903.1	7324.2	3358.5	2117.3
30°	14057.3	11907.9	5952.7	1884.7	1361.3
32.5°	13677.7	10747.8	4252.3	1255.6	870.1
35°	13249.0	9502.3	2585.7	760.2	448.1
37.5°	12794.9	8370.1	1618.4	413.5	309.5
40°	12313.8	7296.3	1097.5	293.4	289.2
42.5°	11799.7	6324.7	687.4	279.0	288.3
45°	11265.3	5338.8	378.0	279.9	270.6
47.5°	10685.2	4268.3	263.8	264.7	263.8
50°	10077.3	3061.7	249.4	261.3	258.7
52.5°	9422.0	1900.8	250.3	255.4	229.1
55°	8726.1	1109.4	234.2	226.6	175.9
57.5°	7994.7	691.7	229.1	186.9	158.1
60°	7228.6	365.3	218.2	168.3	135.3
62.5°	6412.7	180.1	175.0	143.7	110.8
65°	5540.9	121.8	140.4	116.7	93.0
67.5°	4698.7	109.9	105.7	95.5	81.2
70°	3844.7	100.6	82.0	83.7	69.3
72.5°	3006.8	91.3	66.0	71.9	58.3
75°	2223.8	73.6	55.0	56.7	49.9
77.5°	1547.4	57.5	43.1	48.2	46.5
80°	933.5	36.4	34.7	39.7	36.4
82.5°	452.4	23.7	27.1	31.3	28.7
85°	148.0	14.4	20.3	26.2	24.5
87.5°	18.6	8.5	16.9	22.8	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)