

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-LD5-30HE-W-AWG-UNV-L850-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 (P23764)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-AWG-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

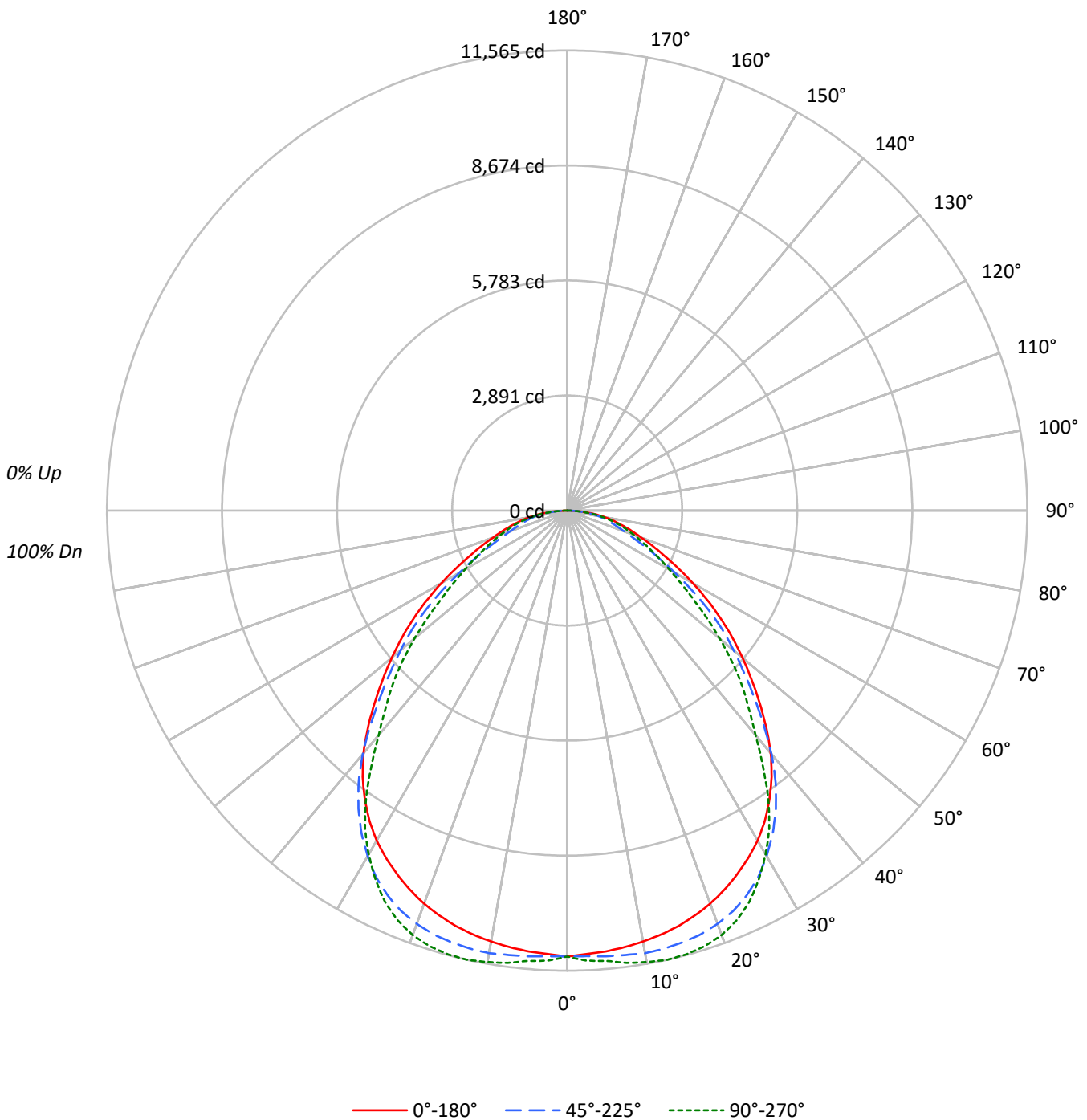
Lumens per Lamp: N/A
Luminaire Lumens: 27783.0 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	85	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65	63					63			
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44	42					42			
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38					38			
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15079	15079	15079
5°	15021	15189	15344
10°	15025	15433	15744
15°	15054	15647	16087
20°	15051	15826	16252
25°	14986	15847	16104
30°	14875	15583	15501
35°	14559	15019	14472
40°	13990	14030	12938
45°	13022	12649	11828
50°	12036	11438	10481
55°	11018	10137	9044
60°	9825	8414	7987
65°	8617	6924	7338
70°	7780	5964	6987
75°	7436	5846	6968
80°	7496	6189	6798
85°	6640	5669	5934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.6	3.9
10°-20°	3172.7	11.4
20°-30°	4866.4	17.5
30°-40°	5597.1	20.1
40°-50°	5105.0	18.4
50°-60°	3826.2	13.8
60°-70°	2353.6	8.5
70°-80°	1348.7	4.9
80°-90°	436.7	1.6
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°	9115.7	32.8
0°-40°	14712.8	53.0
0°-60°	23644.0	85.1
0°-90°	27783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27783.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11207	11207	11207	11207	11207	
5°	11122	11235	11246	11339	11360	###
15°	10807	11047	11233	11473	11549	3051
25°	10094	10384	10674	10839	10847	4651
35°	8864	9037	9144	8994	8811	5528
45°	6843	6992	6648	6305	6216	5281
55°	4697	4523	4321	3940	3855	4196
65°	2706	2421	2175	2242	2305	2722
75°	1430	1282	1125	1288	1340	1530
85°	430	406	367	387	384	480
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11207.4	11207.4	11207.4	11207.4	11207.4
2.5°	11154.6	11234.6	11208.9	11274.6	11323.2
5°	11121.7	11234.6	11246.0	11338.9	11360.3
7.5°	11066.0	11213.1	11264.6	11428.9	11466.1
10°	10997.4	11174.6	11296.0	11473.2	11523.2
12.5°	10914.5	11120.3	11274.6	11493.2	11564.7
15°	10807.3	11047.4	11233.2	11473.2	11549.0
17.5°	10671.6	10950.2	11167.4	11403.2	11481.8
20°	10511.5	10805.9	11053.1	11294.6	11350.3
22.5°	10318.6	10614.4	10895.9	11113.1	11143.1
25°	10094.3	10384.3	10674.4	10838.8	10847.3
27.5°	9849.9	10120.0	10391.5	10480.1	10441.5
30°	9574.1	9815.6	10030.0	10048.5	9977.1
32.5°	9246.9	9464.1	9617.0	9577.0	9456.9
35°	8863.9	9036.8	9144.0	8994.0	8811.0
37.5°	8443.8	8573.8	8609.6	8283.8	8075.1
40°	7965.1	8076.6	7988.0	7535.0	7366.4
42.5°	7413.5	7542.1	7314.9	6867.6	6764.8
45°	6843.4	6992.0	6647.6	6304.6	6216.0
47.5°	6284.6	6420.4	6030.3	5754.5	5623.0
50°	5750.2	5808.8	5464.4	5152.9	5007.1
52.5°	5224.3	5165.7	4921.4	4534.1	4405.5
55°	4697.0	4522.7	4321.2	3939.7	3855.4
57.5°	4168.3	3925.4	3705.3	3412.4	3379.5
60°	3651.0	3352.4	3126.6	2952.3	2968.0
62.5°	3158.0	2853.7	2612.2	2556.4	2616.4
65°	2706.5	2420.7	2174.9	2242.1	2304.9
67.5°	2330.7	2056.3	1806.2	1977.7	2027.7
70°	1977.7	1756.2	1516.1	1737.6	1776.2
72.5°	1696.2	1507.6	1298.9	1514.7	1547.6
75°	1430.4	1281.8	1124.6	1287.5	1340.4
77.5°	1198.9	1076.0	968.8	1064.6	1121.7
80°	967.4	863.1	798.8	841.7	877.4
82.5°	708.8	641.6	594.5	613.0	618.7
85°	430.1	405.8	367.2	387.3	384.4
87.5°	141.5	161.5	170.0	152.9	144.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)