

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-LD5-30SE-W-A-UNV-L835-ED3-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-W-A-UNV-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

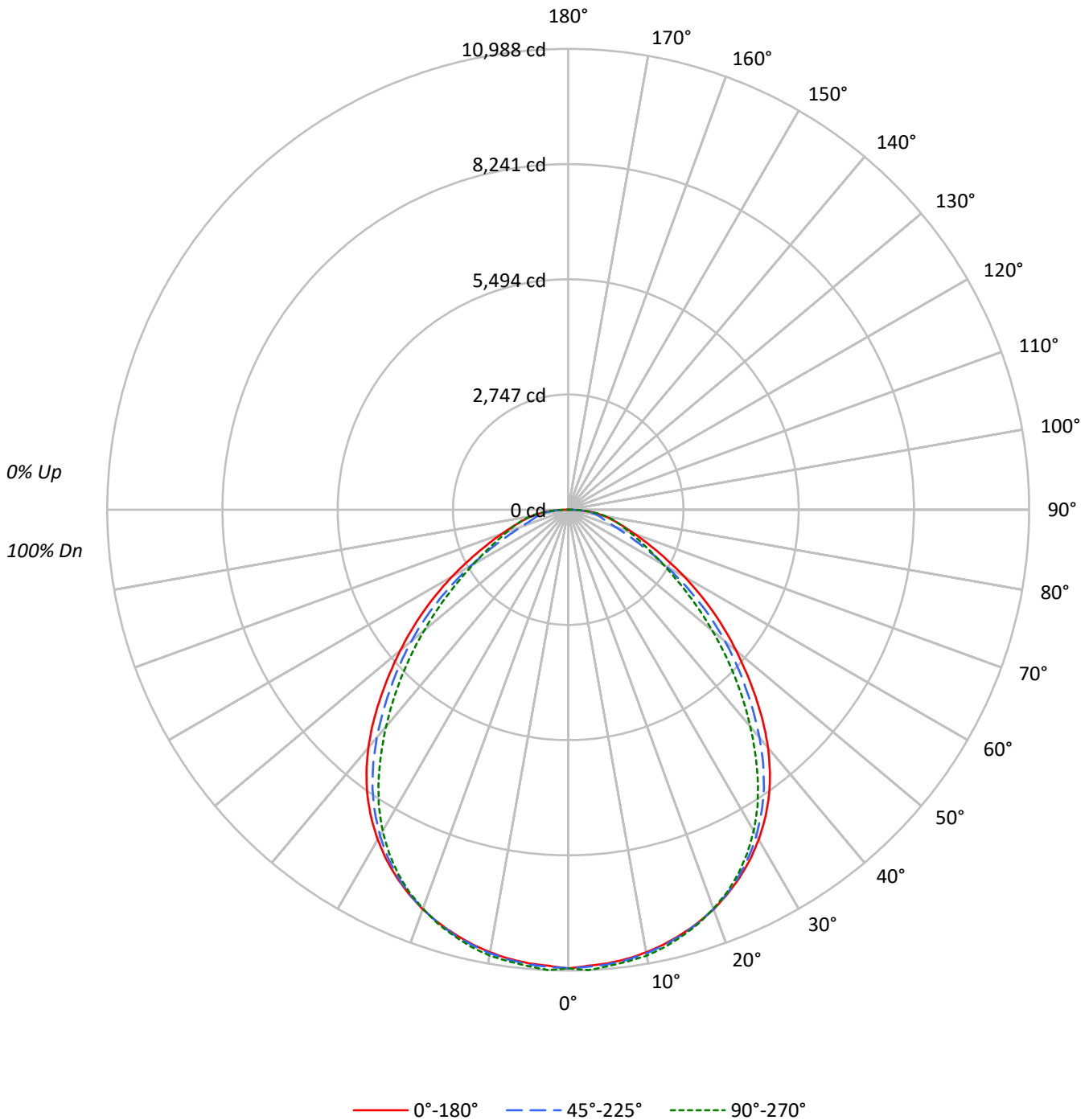
Lumens per Lamp: N/A
Luminaire Lumens: 25120.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
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	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14713	14713	14713
5°	14661	14694	14754
10°	14640	14674	14748
15°	14591	14621	14655
20°	14515	14504	14494
25°	14358	14308	14228
30°	14110	13939	13736
35°	13699	13355	12944
40°	13018	12459	11861
45°	12027	11355	10668
50°	10932	10225	9383
55°	9830	8852	8112
60°	8602	7235	7039
65°	7417	5689	6353
70°	6613	4643	6123
75°	6334	4533	6398
80°	6851	5360	7128
85°	7691	6455	7768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1036.4	4.1
10°-20°	2966.1	11.8
20°-30°	4436.9	17.7
30°-40°	5062.2	20.2
40°-50°	4608.0	18.3
50°-60°	3383.6	13.5
60°-70°	1997.9	8.0
70°-80°	1144.9	4.6
80°-90°	484.1	1.9
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°	8439.4	33.6
0°-40°	13501.5	53.7
0°-60°	21493.1	85.6
0°-90°	25120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10935	10935	10935	10935	10935	
5°	10855	10923	10880	10923	10924	###
15°	10475	10533	10496	10533	10521	2956
25°	9671	9706	9638	9634	9584	4452
35°	8340	8300	8131	7991	7880	5196
45°	6320	6283	5968	5700	5606	4871
55°	4191	3997	3774	3500	3458	3748
65°	2330	2034	1787	1912	1995	2344
75°	1218	1045	872	1137	1231	1313
85°	498	460	418	493	503	521
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10935.2	10935.2	10935.2	10935.2	10935.2
2.5°	10884.6	10947.5	10908.0	10951.2	10988.2
5°	10855.0	10922.8	10879.7	10922.8	10924.1
7.5°	10800.7	10863.6	10821.7	10868.6	10863.6
10°	10715.6	10778.5	10740.3	10790.9	10794.6
12.5°	10607.1	10667.5	10628.1	10686.0	10676.2
15°	10475.2	10533.1	10496.1	10533.1	10520.8
17.5°	10319.8	10372.8	10324.7	10365.4	10344.4
20°	10137.3	10181.6	10129.9	10168.1	10122.5
22.5°	9919.0	9958.4	9904.2	9925.1	9878.3
25°	9671.1	9705.6	9637.8	9634.1	9583.5
27.5°	9394.8	9413.3	9327.0	9297.4	9239.5
30°	9081.6	9086.5	8971.8	8916.3	8841.1
32.5°	8730.1	8717.8	8571.0	8488.4	8395.9
35°	8340.4	8299.7	8130.8	7991.4	7880.4
37.5°	7900.2	7836.0	7633.8	7427.8	7321.8
40°	7411.8	7336.6	7093.6	6838.3	6753.2
42.5°	6880.3	6816.1	6530.0	6263.6	6179.8
45°	6320.4	6283.4	5967.7	5700.0	5606.3
47.5°	5760.5	5733.3	5425.0	5152.5	5039.0
50°	5222.8	5163.6	4884.9	4586.4	4482.8
52.5°	4701.1	4580.3	4334.8	4029.0	3952.5
55°	4190.6	3996.9	3773.7	3499.9	3458.0
57.5°	3684.9	3434.6	3217.5	3012.8	3011.6
60°	3196.6	2910.5	2688.5	2581.2	2615.7
62.5°	2739.0	2445.5	2205.0	2212.4	2275.3
65°	2329.6	2033.6	1787.0	1911.5	1995.4
67.5°	1978.1	1695.7	1445.4	1677.2	1757.4
70°	1680.9	1425.6	1180.2	1470.0	1556.4
72.5°	1430.6	1216.0	995.2	1297.4	1384.9
75°	1218.4	1044.6	871.9	1137.0	1230.8
77.5°	1045.8	891.6	781.9	984.1	1081.6
80°	884.2	748.6	691.8	836.1	920.0
82.5°	700.5	606.8	573.5	679.5	722.7
85°	498.2	460.0	418.1	493.3	503.2
87.5°	273.8	283.6	234.3	283.6	284.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)