

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-AI-UNV-L840-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 (P23765)
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-AI-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

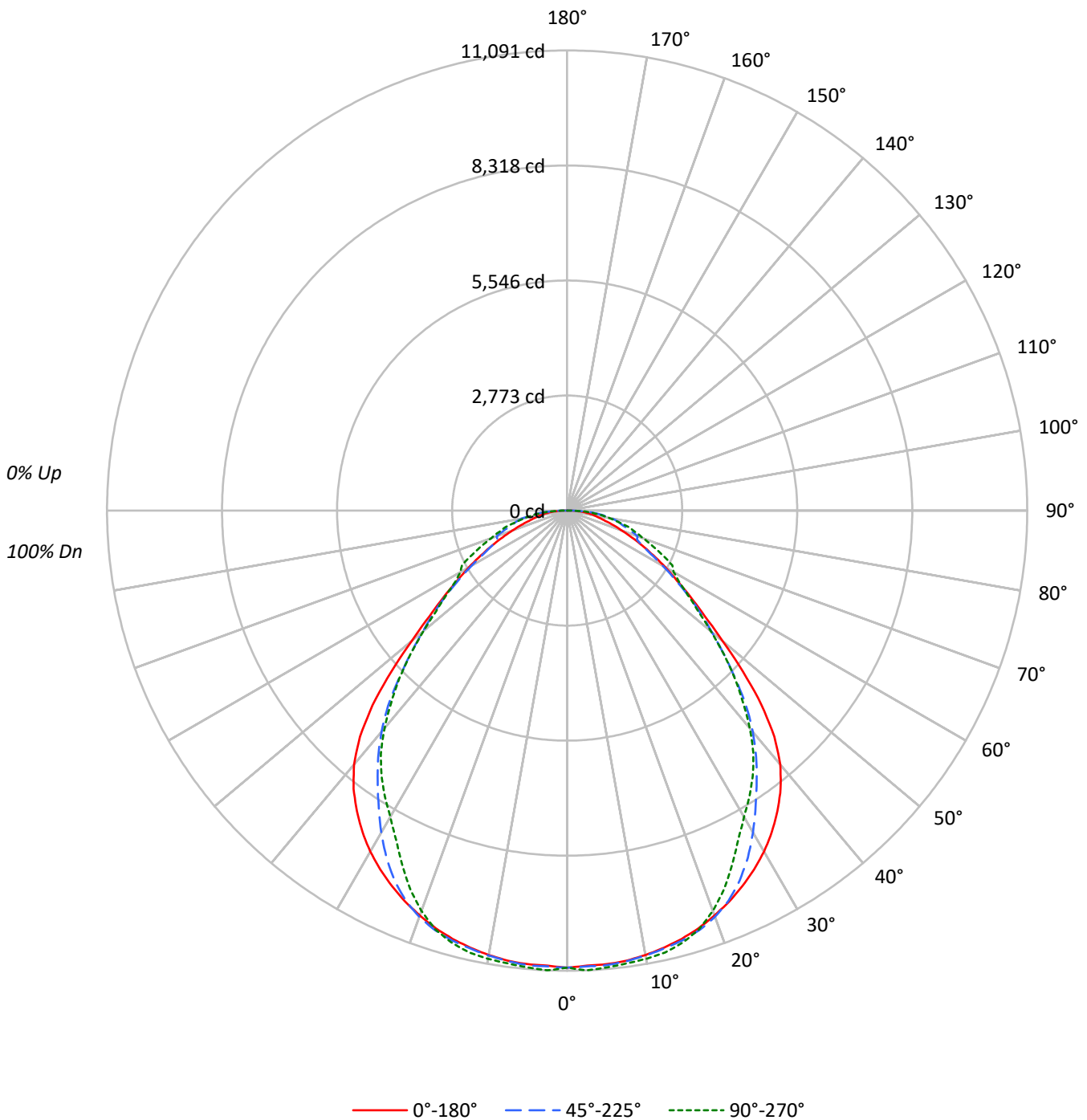
Lumens per Lamp: N/A
Luminaire Lumens: 25501.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	14824	14824	14824
5°	14823	14855	14927
10°	14860	14878	14987
15°	14882	14938	15011
20°	14868	14923	14701
25°	14830	14608	13972
30°	14742	13919	13240
35°	14520	13082	12809
40°	14035	12231	12030
45°	12615	10922	10882
50°	10231	9513	9448
55°	8496	8338	8335
60°	7356	7141	7983
65°	6375	6335	8047
70°	5497	7107	7671
75°	4929	7283	7996
80°	5123	8574	8023
85°	5817	9880	9167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.0	4.1
10°-20°	3029.5	11.9
20°-30°	4499.5	17.6
30°-40°	5108.2	20.0
40°-50°	4566.5	17.9
50°-60°	3157.3	12.4
60°-70°	2083.4	8.2
70°-80°	1405.5	5.5
80°-90°	602.0	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°	8578.0	33.6
0°-40°	13686.3	53.7
0°-60°	21410.1	84.0
0°-90°	25501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11017	11017	11017	11017	11017	
5°	10975	11042	10998	11043	11052	###
15°	10684	10735	10724	10784	10776	3016
25°	9989	10084	9840	9546	9412	4603
35°	8840	8654	7964	7848	7798	5513
45°	6630	6068	5740	5784	5719	5042
55°	3622	3306	3554	3504	3553	3290
65°	2002	1778	1990	2327	2528	1998
75°	948	1193	1401	1497	1538	1035
85°	377	524	640	644	594	393
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11017.2	11017.2	11017.2	11017.2	11017.2
2.5°	10979.8	11048.4	10997.3	11044.7	11090.8
5°	10974.8	11042.2	10998.5	11043.4	11052.2
7.5°	10943.6	11006.0	10954.8	10998.5	11008.5
10°	10876.2	10949.9	10890.0	10957.3	10969.8
12.5°	10788.9	10863.8	10811.4	10903.7	10908.7
15°	10684.1	10735.3	10724.0	10783.9	10776.4
17.5°	10551.9	10610.5	10601.8	10616.8	10581.8
20°	10383.5	10449.6	10422.1	10353.5	10267.4
22.5°	10202.6	10282.4	10173.9	10000.5	9879.4
25°	9989.2	10084.0	9839.5	9546.3	9411.6
27.5°	9753.4	9838.3	9431.6	9072.3	8932.5
30°	9489.0	9525.1	8958.7	8616.9	8522.1
32.5°	9183.3	9130.9	8453.5	8227.7	8172.8
35°	8840.2	8654.3	7964.4	7848.4	7798.5
37.5°	8453.5	8112.9	7481.6	7428.0	7375.6
40°	7990.6	7487.9	6963.9	6929.0	6849.1
42.5°	7393.1	6807.9	6388.8	6347.6	6276.5
45°	6629.5	6068.1	5740.0	5783.7	5718.8
47.5°	5751.3	5325.8	5117.5	5237.3	5117.5
50°	4887.9	4602.3	4544.9	4653.4	4513.7
52.5°	4180.6	3923.6	4042.1	4060.8	3977.2
55°	3621.7	3306.0	3554.3	3504.4	3553.1
57.5°	3135.1	2782.1	3087.7	3030.3	3197.5
60°	2733.4	2336.7	2653.6	2641.1	2966.7
62.5°	2339.2	2022.3	2276.8	2460.2	2860.7
65°	2002.3	1777.8	1989.9	2326.7	2527.6
67.5°	1679.2	1594.4	1820.2	2007.3	2226.9
70°	1397.3	1440.9	1806.5	1771.5	1949.9
72.5°	1160.2	1308.7	1594.4	1600.6	1726.6
75°	948.1	1192.7	1401.0	1497.1	1538.2
77.5°	788.5	1081.6	1265.0	1298.7	1258.8
80°	661.2	953.1	1106.6	1091.6	1035.5
82.5°	534.0	722.3	872.0	885.8	819.6
85°	376.8	524.0	640.0	643.7	593.8
87.5°	202.1	323.1	388.0	399.2	369.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)