

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

Luminaire Equipment: Sample No. Condition Description

Summary

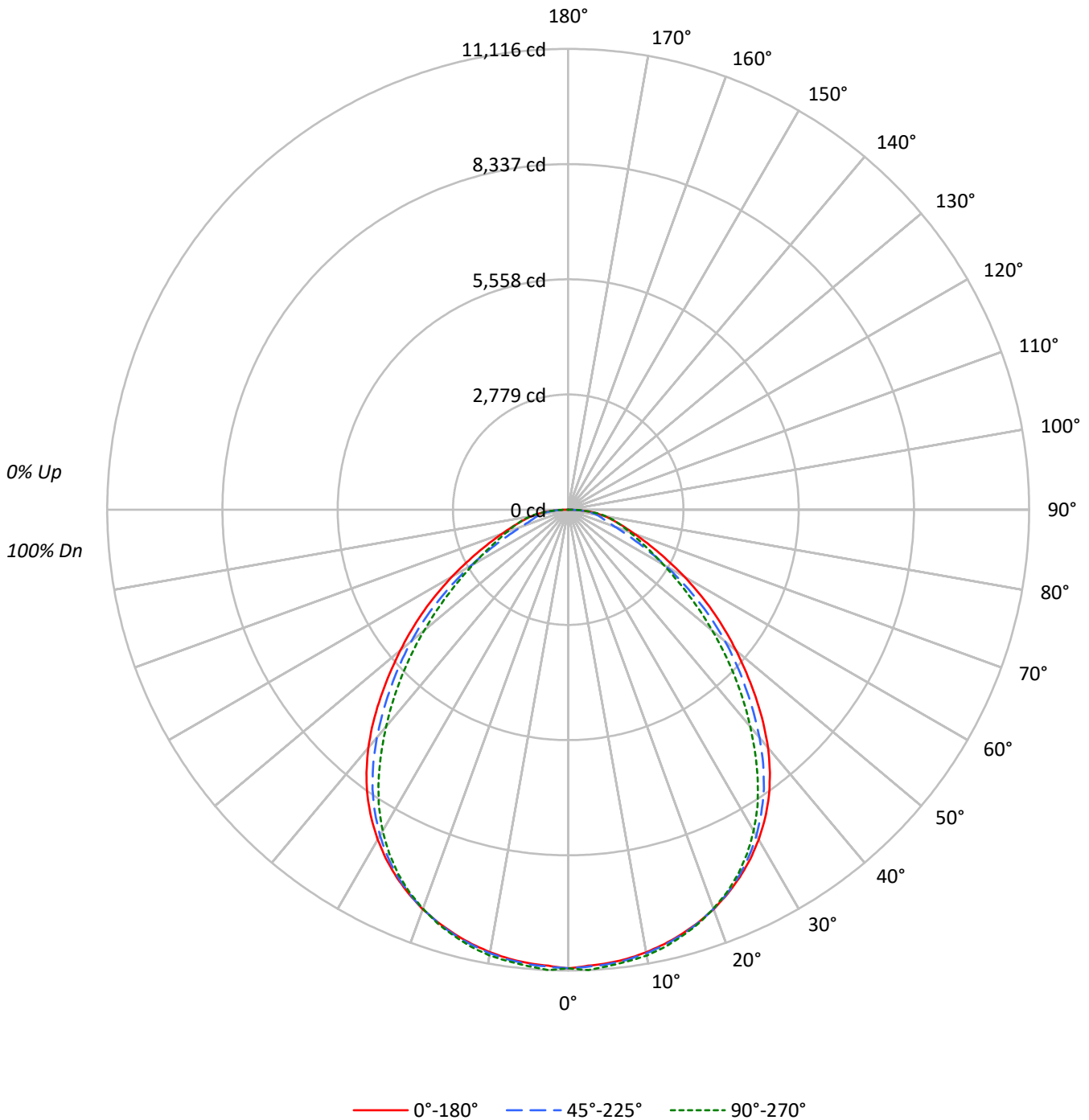
Lumens per Lamp: N/A
Luminaire Lumens: 25411.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65					63				
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57					55				
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45					43				
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40					38				
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36					35				
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33					31				
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14884	14884	14884
5°	14831	14865	14925
10°	14810	14844	14919
15°	14760	14790	14825
20°	14683	14672	14662
25°	14524	14474	14392
30°	14273	14101	13895
35°	13858	13510	13094
40°	13169	12604	11999
45°	12166	11487	10791
50°	11059	10344	9492
55°	9944	8955	8206
60°	8702	7318	7120
65°	7503	5755	6426
70°	6689	4697	6194
75°	6408	4585	6472
80°	6931	5423	7211
85°	7781	6529	7858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1048.4	4.1
10°-20°	3000.4	11.8
20°-30°	4488.3	17.7
30°-40°	5120.8	20.2
40°-50°	4661.4	18.3
50°-60°	3422.8	13.5
60°-70°	2021.0	8.0
70°-80°	1158.2	4.6
80°-90°	489.7	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°	8537.1	33.6
0°-40°	13657.9	53.7
0°-60°	21742.1	85.6
0°-90°	25411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11062	11062	11062	11062	11062	
5°	10981	11049	11006	11049	11051	###
15°	10596	10655	10618	10655	10643	2990
25°	9783	9818	9749	9746	9694	4503
35°	8437	8396	8225	8084	7972	5257
45°	6394	6356	6037	5766	5671	4927
55°	4239	4043	3817	3540	3498	3791
65°	2357	2057	1808	1934	2018	2371
75°	1233	1057	882	1150	1245	1329
85°	504	465	423	499	509	527
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11061.8	11061.8	11061.8	11061.8	<i>11061.8</i>
2.5°	<i>11010.7</i>	<i>11074.3</i>	<i>11034.4</i>	<i>11078.1</i>	<i>11115.5</i>
5°	10980.7	11049.4	11005.7	11049.4	<i>11050.6</i>
7.5°	10925.9	10989.5	10947.1	10994.5	<i>10989.5</i>
10°	10839.8	10903.4	10864.7	10915.9	<i>10919.6</i>
12.5°	10730.0	10791.1	10751.2	10809.8	<i>10799.9</i>
15°	10596.5	10655.1	10617.7	10655.1	<i>10642.7</i>
17.5°	10439.3	10493.0	10444.3	10485.5	<i>10464.3</i>
20°	10254.7	10299.6	10247.2	10285.9	<i>10239.7</i>
22.5°	10033.9	10073.8	10018.9	10040.1	<i>9992.7</i>
25°	9783.1	9818.1	9749.4	9745.7	<i>9694.5</i>
27.5°	9503.7	9522.4	9435.1	9405.1	<i>9346.5</i>
30°	9186.8	9191.8	9075.8	9019.6	<i>8943.5</i>
32.5°	8831.3	8818.8	8670.3	8586.7	<i>8493.2</i>
35°	8437.0	8395.9	8225.0	8084.0	<i>7971.7</i>
37.5°	7991.7	7926.8	7722.2	7513.9	<i>7406.6</i>
40°	7497.6	7421.5	7175.8	6917.5	<i>6831.5</i>
42.5°	6960.0	6895.1	6605.7	6336.2	<i>6251.4</i>
45°	6393.6	6356.2	6036.8	5766.1	<i>5671.3</i>
47.5°	5827.2	5799.8	5487.9	5212.2	<i>5097.4</i>
50°	5283.3	5223.4	4941.5	4639.6	<i>4534.8</i>
52.5°	4755.6	4633.3	4385.1	4075.7	<i>3998.3</i>
55°	4239.1	4043.2	3817.4	3540.5	<i>3498.1</i>
57.5°	3727.6	3474.4	3254.8	3047.7	<i>3046.5</i>
60°	3233.6	2944.2	2719.6	2611.1	<i>2646.0</i>
62.5°	2770.8	2473.8	2230.6	2238.1	<i>2301.7</i>
65°	2356.6	2057.2	1807.7	1933.7	<i>2018.5</i>
67.5°	2001.0	1715.4	1462.1	1696.6	<i>1777.7</i>
70°	1700.4	1442.1	1193.9	1487.1	<i>1574.4</i>
72.5°	1447.1	1230.1	1006.8	1312.4	<i>1401.0</i>
75°	1232.6	1056.7	882.0	1150.2	<i>1245.0</i>
77.5°	1057.9	902.0	790.9	995.5	<i>1094.1</i>
80°	894.5	757.2	699.9	845.8	<i>930.7</i>
82.5°	708.6	613.8	580.1	687.4	<i>731.1</i>
85°	504.0	465.3	422.9	499.0	<i>509.0</i>
87.5°	277.0	286.9	237.0	286.9	<i>288.2</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)