

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-L850-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-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

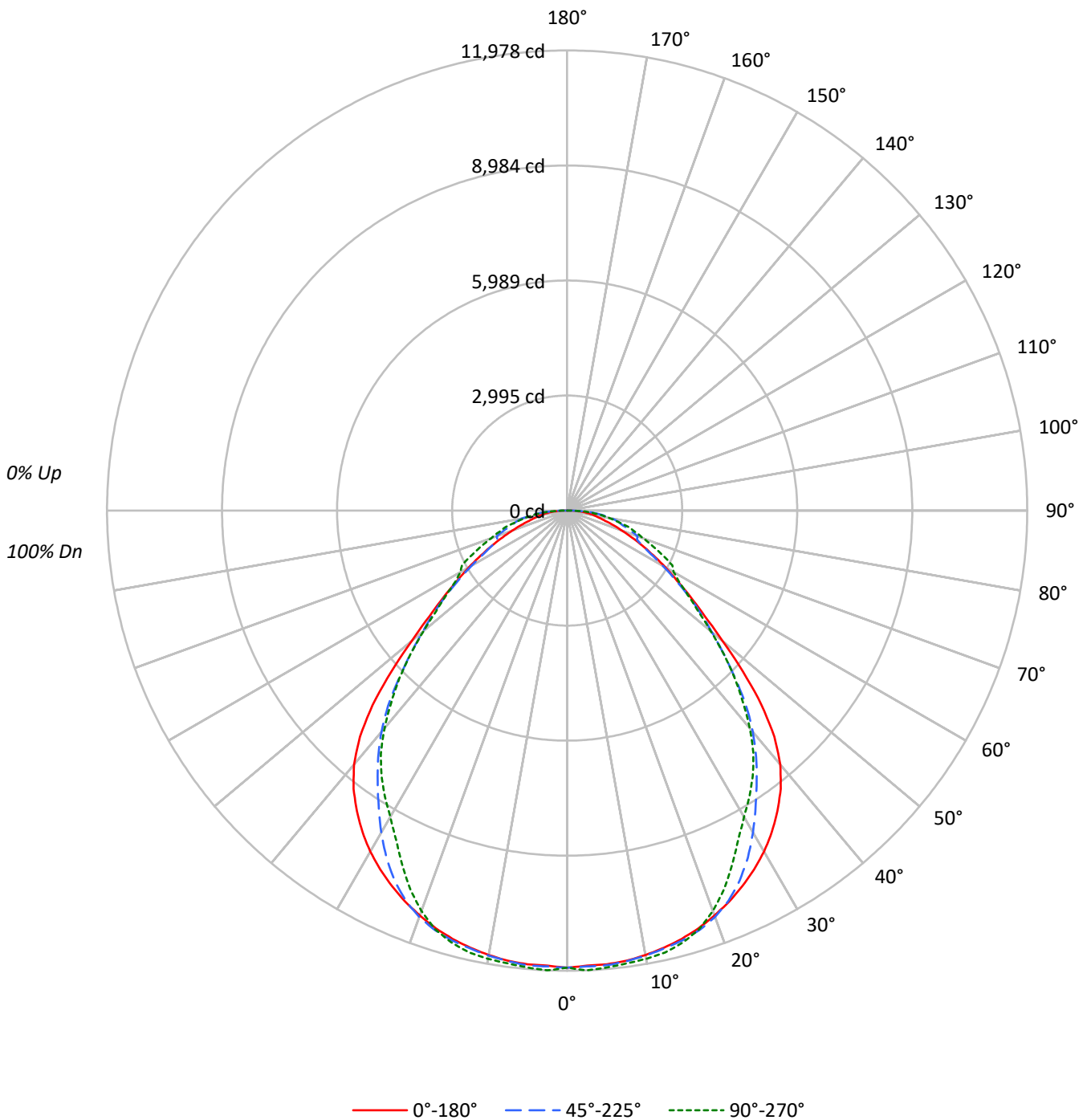
Lumens per Lamp: N/A
Luminaire Lumens: 27541.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16009	16009	16009
5°	16009	16043	16122
10°	16048	16069	16186
15°	16073	16133	16212
20°	16057	16117	15877
25°	16016	15776	15090
30°	15922	15032	14299
35°	15682	14128	13834
40°	15158	13210	12992
45°	13624	11796	11752
50°	11050	10274	10204
55°	9175	9005	9001
60°	7944	7712	8622
65°	6885	6842	8691
70°	5936	7675	8285
75°	5323	7866	8636
80°	5533	9260	8665
85°	6282	10671	9900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.9	4.1
10°-20°	3271.9	11.9
20°-30°	4859.5	17.6
30°-40°	5516.9	20.0
40°-50°	4931.8	17.9
50°-60°	3409.9	12.4
60°-70°	2250.0	8.2
70°-80°	1518.0	5.5
80°-90°	650.1	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°	9264.3	33.6
0°-40°	14781.1	53.7
0°-60°	23122.8	84.0
0°-90°	27541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11899	11899	11899	11899	11899	
5°	11853	11926	11878	11927	11936	###
15°	11539	11594	11582	11647	11638	3257
25°	10788	10891	10627	10310	10164	4971
35°	9547	9347	8602	8476	8422	5954
45°	7160	6554	6199	6246	6176	5445
55°	3911	3570	3839	3785	3837	3553
65°	2162	1920	2149	2513	2730	2158
75°	1024	1288	1513	1617	1661	1118
85°	407	566	691	695	641	424
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11898.6	11898.6	11898.6	11898.6	<i>11898.6</i>
2.5°	<i>11858.1</i>	<i>11932.2</i>	<i>11877.0</i>	<i>11928.2</i>	<i>11978.1</i>
5°	11852.8	11925.5	11878.4	11926.9	<i>11936.3</i>
7.5°	11819.1	11886.4	11831.2	11878.4	<i>11889.1</i>
10°	11746.3	11825.8	11761.1	11833.9	<i>11847.4</i>
12.5°	11652.0	11732.8	11676.2	11776.0	<i>11781.3</i>
15°	11538.8	11594.1	11581.9	11646.6	<i>11638.5</i>
17.5°	11396.0	11459.3	11449.9	11466.1	<i>11428.3</i>
20°	11214.1	11285.5	11255.9	11181.8	<i>11088.8</i>
22.5°	11018.7	11105.0	10987.7	10800.5	<i>10669.8</i>
25°	10788.3	10890.7	10626.7	10310.0	<i>10164.5</i>
27.5°	10533.7	10625.3	10186.1	9798.0	<i>9647.1</i>
30°	10248.0	10287.1	9675.4	9306.2	<i>9203.8</i>
32.5°	9917.9	9861.4	9129.7	8885.9	<i>8826.6</i>
35°	9547.4	9346.7	8601.6	8476.3	<i>8422.4</i>
37.5°	9129.7	8761.9	8080.1	8022.2	<i>7965.6</i>
40°	8629.9	8086.9	7521.0	7483.3	<i>7397.0</i>
42.5°	7984.5	7352.6	6899.8	6855.4	<i>6778.6</i>
45°	7159.9	6553.6	6199.2	6246.4	<i>6176.3</i>
47.5°	6211.3	5751.9	5526.9	5656.2	<i>5526.9</i>
50°	5279.0	4970.4	4908.4	5025.7	<i>4874.8</i>
52.5°	4515.0	4237.5	4365.5	4385.7	<i>4295.4</i>
55°	3911.4	3570.5	3838.6	3784.7	<i>3837.3</i>
57.5°	3385.9	3004.6	3334.7	3272.7	<i>3453.3</i>
60°	2952.1	2523.6	2865.8	2852.4	<i>3204.0</i>
62.5°	2526.3	2184.1	2458.9	2657.0	<i>3089.5</i>
65°	2162.5	1920.0	2149.0	2512.8	<i>2729.8</i>
67.5°	1813.6	1721.9	1965.8	2167.9	<i>2405.0</i>
70°	1509.0	1556.2	1951.0	1913.3	<i>2105.9</i>
72.5°	1253.0	1413.4	1721.9	1728.7	<i>1864.8</i>
75°	1024.0	1288.1	1513.1	1616.8	<i>1661.3</i>
77.5°	851.5	1168.2	1366.2	1402.6	<i>1359.5</i>
80°	714.1	1029.4	1195.1	1178.9	<i>1118.3</i>
82.5°	576.7	780.1	941.8	956.6	<i>885.2</i>
85°	406.9	565.9	691.2	695.2	<i>641.3</i>
87.5°	218.3	349.0	419.0	431.2	<i>398.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)