

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-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 (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-L835-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

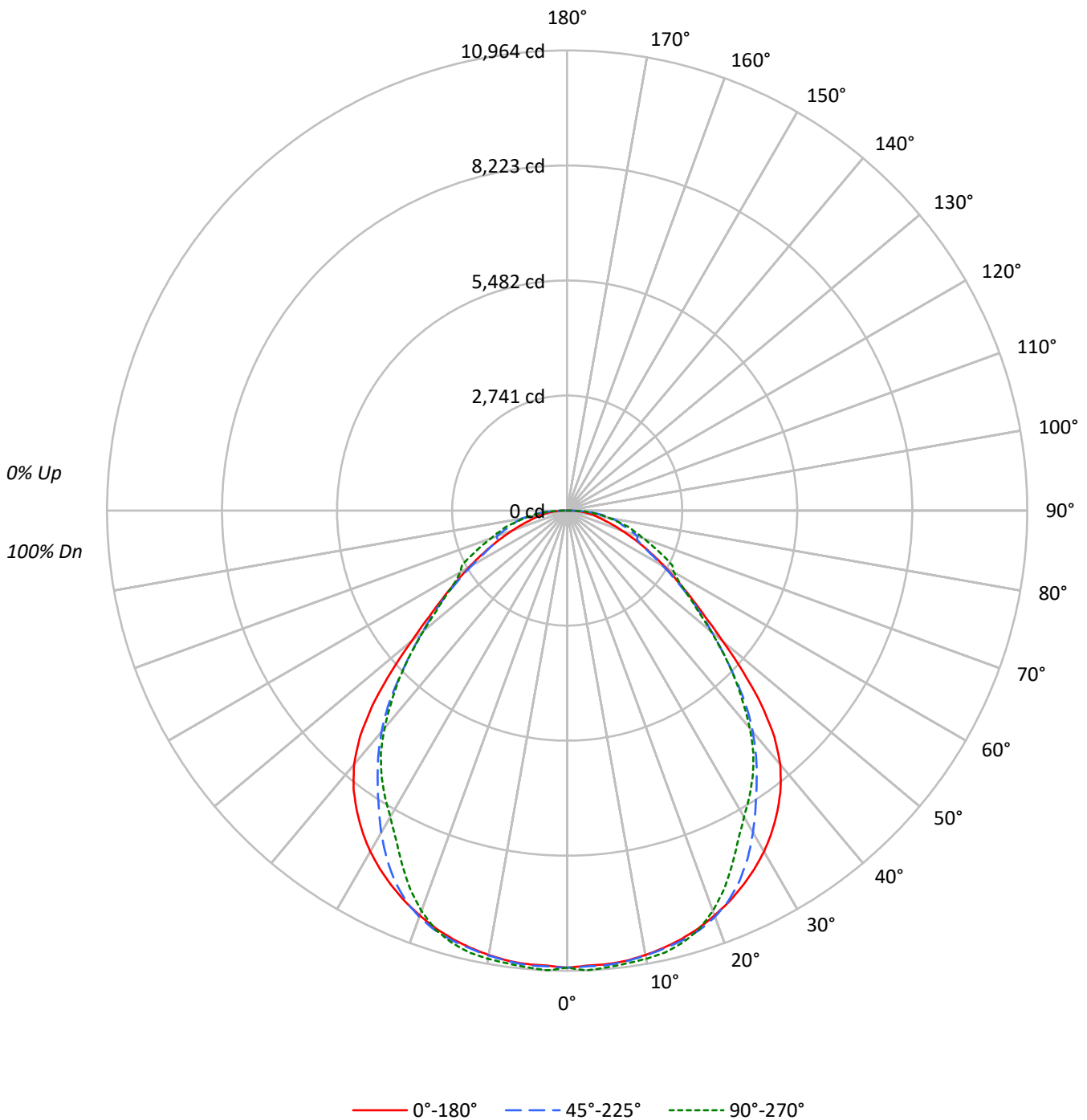
Lumens per Lamp: N/A
Luminaire Lumens: 25209.0 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	14654	14654	14654
5°	14653	14685	14756
10°	14689	14708	14816
15°	14712	14767	14839
20°	14697	14752	14533
25°	14660	14440	13812
30°	14574	13759	13089
35°	14354	12932	12663
40°	13874	12091	11892
45°	12470	10797	10757
50°	10114	9404	9340
55°	8398	8242	8239
60°	7271	7059	7892
65°	6302	6263	7955
70°	5434	7025	7583
75°	4873	7200	7905
80°	5064	8476	7931
85°	5749	9767	9062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.0	4.1
10°-20°	2994.9	11.9
20°-30°	4448.0	17.6
30°-40°	5049.7	20.0
40°-50°	4514.2	17.9
50°-60°	3121.2	12.4
60°-70°	2059.5	8.2
70°-80°	1389.4	5.5
80°-90°	595.1	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°	8479.8	33.6
0°-40°	13529.5	53.7
0°-60°	21164.9	84.0
0°-90°	25209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10891	10891	10891	10891	10891	
5°	10849	10916	10873	10917	10926	###
15°	10562	10612	10601	10660	10653	2981
25°	9875	9969	9727	9437	9304	4550
35°	8739	8555	7873	7758	7709	5450
45°	6554	5999	5674	5718	5653	4984
55°	3580	3268	3514	3464	3512	3252
65°	1979	1757	1967	2300	2499	1975
75°	937	1179	1385	1480	1521	1024
85°	372	518	633	636	587	388
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10891.1	10891.1	10891.1	10891.1	<i>10891.1</i>
2.5°	<i>10854.1</i>	<i>10921.9</i>	<i>10871.3</i>	<i>10918.2</i>	<i>10963.8</i>
5°	10849.1	10915.7	10872.6	10917.0	<i>10925.6</i>
7.5°	10818.3	10880.0	10829.4	10872.6	<i>10882.4</i>
10°	10751.7	10824.5	10765.3	10831.9	<i>10844.2</i>
12.5°	10665.4	10739.4	10687.6	10778.8	<i>10783.8</i>
15°	10561.8	10612.3	10601.2	10660.4	<i>10653.0</i>
17.5°	10431.1	10489.0	10480.4	10495.2	<i>10460.7</i>
20°	10264.6	10329.9	10302.8	10235.0	<i>10149.9</i>
22.5°	10085.7	10164.7	10057.4	9885.9	<i>9766.3</i>
25°	9874.8	9968.6	9726.9	9437.0	<i>9303.8</i>
27.5°	9641.8	9725.6	9323.6	8968.4	<i>8830.3</i>
30°	9380.3	9416.1	8856.2	8518.2	<i>8424.5</i>
32.5°	9078.2	9026.4	8356.7	8133.5	<i>8079.2</i>
35°	8739.0	8555.2	7873.2	7758.5	<i>7709.2</i>
37.5°	8356.7	8020.0	7396.0	7342.9	<i>7291.1</i>
40°	7899.1	7402.1	6884.2	6849.6	<i>6770.7</i>
42.5°	7308.4	6730.0	6315.6	6274.9	<i>6204.6</i>
45°	6553.6	5998.7	5674.3	5717.5	<i>5653.3</i>
47.5°	5685.4	5264.9	5058.9	5177.3	<i>5058.9</i>
50°	4832.0	4549.6	4492.8	4600.1	<i>4462.0</i>
52.5°	4132.7	3878.7	3995.8	4014.3	<i>3931.7</i>
55°	3580.2	3268.2	3513.6	3464.3	<i>3512.4</i>
57.5°	3099.2	2750.2	3052.4	2995.6	<i>3160.9</i>
60°	2702.1	2309.9	2623.2	2610.8	<i>2932.7</i>
62.5°	2312.4	1999.1	2250.7	2432.0	<i>2827.9</i>
65°	1979.4	1757.4	1967.1	2300.1	<i>2498.6</i>
67.5°	1660.0	1576.1	1799.4	1984.3	<i>2201.4</i>
70°	1381.3	1424.4	1785.8	1751.3	<i>1927.6</i>
72.5°	1146.9	1293.7	1576.1	1582.3	<i>1706.9</i>
75°	937.3	1179.0	1385.0	1479.9	<i>1520.6</i>
77.5°	779.4	1069.3	1250.5	1283.8	<i>1244.4</i>
80°	653.6	942.2	1093.9	1079.1	<i>1023.6</i>
82.5°	527.8	714.1	862.1	875.6	<i>810.3</i>
85°	372.4	518.0	632.7	636.4	<i>587.0</i>
87.5°	199.8	319.4	383.5	394.6	<i>365.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)