

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-L740-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-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

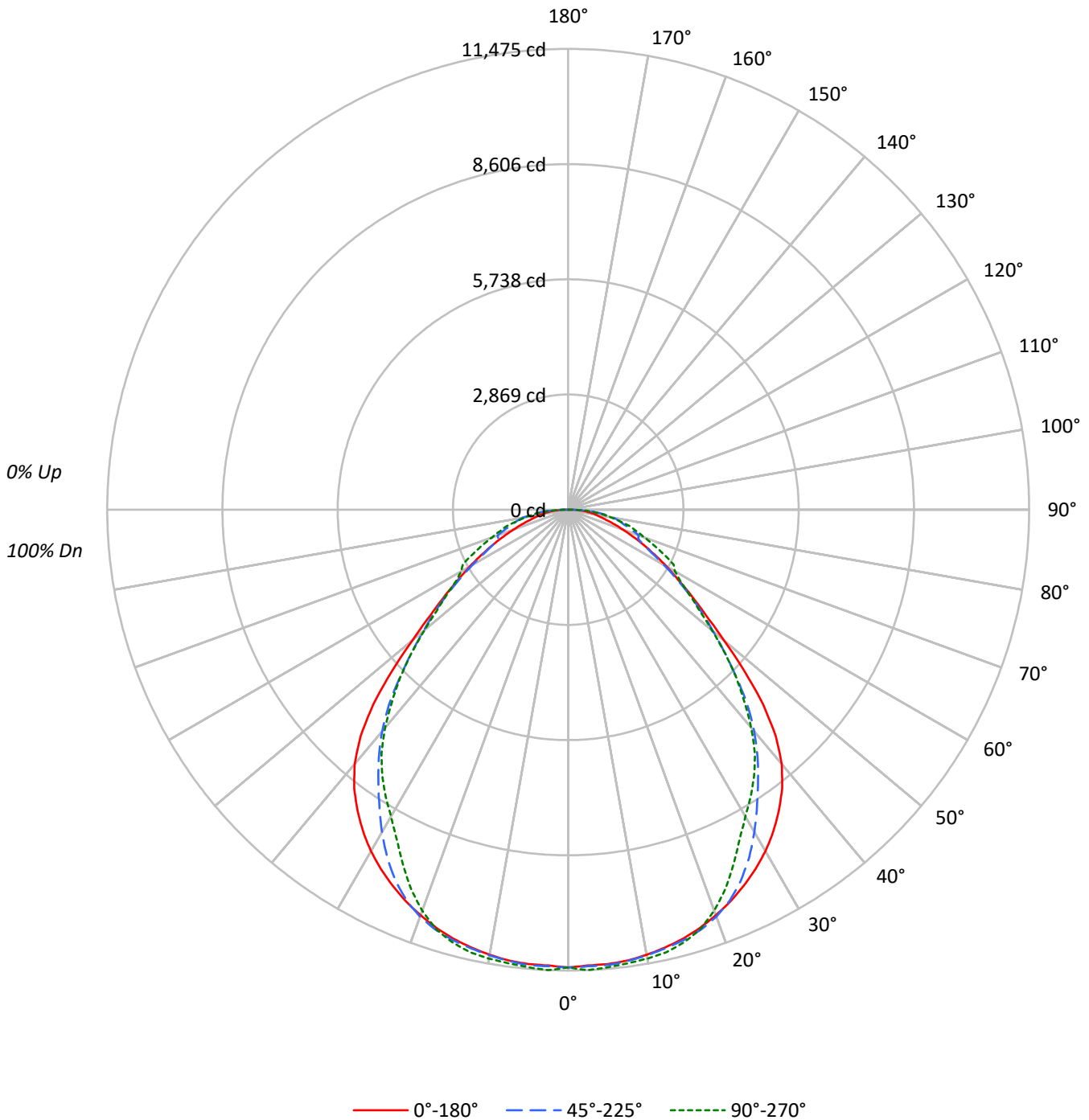
Lumens per Lamp: N/A
Luminaire Lumens: 26385.0 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	15337	15337	15337
5°	15337	15370	15445
10°	15375	15394	15507
15°	15398	15456	15531
20°	15383	15440	15211
25°	15344	15114	14457
30°	15253	14401	13699
35°	15024	13535	13253
40°	14521	12655	12447
45°	13052	11301	11259
50°	10586	9843	9775
55°	8790	8627	8624
60°	7611	7388	8260
65°	6596	6555	8326
70°	5687	7353	7937
75°	5100	7536	8274
80°	5301	8871	8302
85°	6018	10223	9485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.3	4.1
10°-20°	3134.6	11.9
20°-30°	4655.5	17.6
30°-40°	5285.3	20.0
40°-50°	4724.8	17.9
50°-60°	3266.7	12.4
60°-70°	2155.6	8.2
70°-80°	1454.3	5.5
80°-90°	622.9	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°	8875.4	33.6
0°-40°	14160.7	53.7
0°-60°	22152.3	84.0
0°-90°	26385.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26385.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11399	11399	11399	11399	11399	
5°	11355	11425	11380	11426	11435	###
15°	11054	11107	11096	11158	11150	3120
25°	10336	10434	10181	9877	9738	4762
35°	9147	8954	8240	8120	8069	5704
45°	6859	6278	5939	5984	5917	5216
55°	3747	3421	3678	3626	3676	3404
65°	2072	1839	2059	2407	2615	2067
75°	981	1234	1450	1549	1592	1071
85°	390	542	662	666	614	406
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11399.1	11399.1	11399.1	11399.1	11399.1
2.5°	11360.4	11431.4	11378.5	11427.5	11475.3
5°	11355.2	11425.0	11379.8	11426.2	11435.3
7.5°	11323.0	11387.5	11334.6	11379.8	11390.1
10°	11253.3	11329.4	11267.5	11337.2	11350.1
12.5°	11162.9	11240.4	11186.2	11281.7	11286.8
15°	11054.5	11107.4	11095.8	11157.8	11150.0
17.5°	10917.7	10978.3	10969.3	10984.8	10948.6
20°	10743.4	10811.8	10783.4	10712.4	10623.4
22.5°	10556.2	10638.8	10526.5	10347.1	10221.9
25°	10335.5	10433.6	10180.6	9877.3	9737.9
27.5°	10091.5	10179.3	9758.5	9386.8	9242.2
30°	9817.9	9855.3	9269.3	8915.6	8817.5
32.5°	9501.6	9447.4	8746.5	8512.9	8456.1
35°	9146.7	8954.3	8240.5	8120.5	8068.8
37.5°	8746.5	8394.1	7741.0	7685.5	7631.3
40°	8267.6	7747.4	7205.3	7169.2	7086.5
42.5°	7649.3	7043.9	6610.2	6567.6	6494.1
45°	6859.4	6278.5	5939.0	5984.2	5917.1
47.5°	5950.6	5510.5	5294.9	5418.8	5294.9
50°	5057.4	4761.8	4702.4	4814.7	4670.1
52.5°	4325.5	4059.6	4182.2	4201.6	4115.1
55°	3747.2	3420.6	3677.5	3625.9	3676.2
57.5°	3243.8	2878.5	3194.8	3135.4	3308.3
60°	2828.2	2417.7	2745.6	2732.6	3069.5
62.5°	2420.3	2092.4	2355.7	2545.5	2959.8
65°	2071.7	1839.4	2058.8	2407.4	2615.2
67.5°	1737.4	1649.7	1883.3	2076.9	2304.1
70°	1445.7	1490.9	1869.1	1832.9	2017.5
72.5°	1200.5	1354.1	1649.7	1656.1	1786.5
75°	981.0	1234.0	1449.6	1549.0	1591.6
77.5°	815.8	1119.1	1308.9	1343.7	1302.4
80°	684.1	986.2	1144.9	1129.5	1071.4
82.5°	552.5	747.4	902.3	916.5	848.1
85°	389.8	542.1	662.2	666.1	614.4
87.5°	209.1	334.3	401.4	413.1	382.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)