

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-CLWG-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-W-CLWG-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

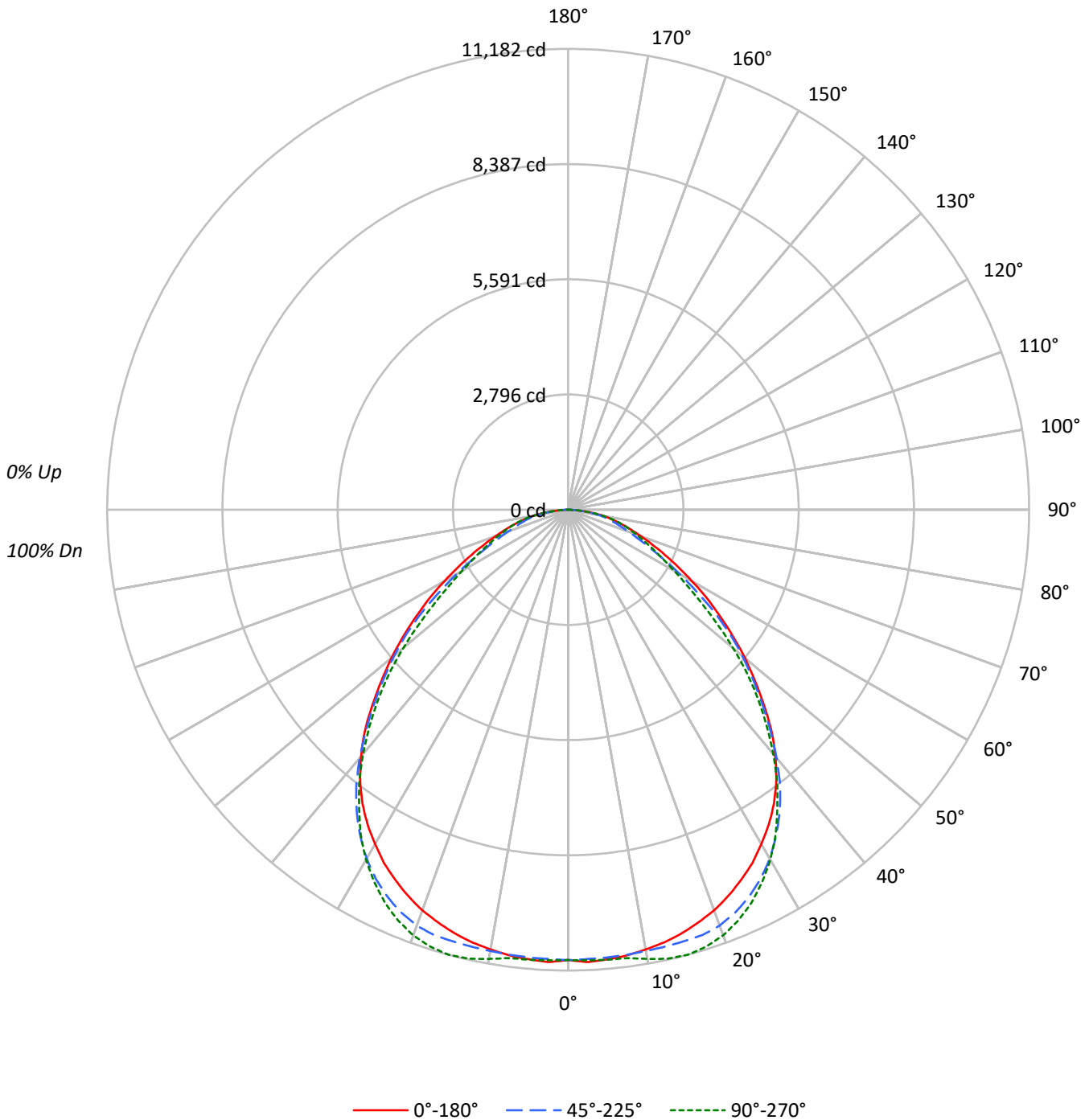
Lumens per Lamp: N/A
Luminaire Lumens: 27255.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	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	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14704	14704	14704
5°	14791	14730	14802
10°	14804	14854	15120
15°	14822	15101	15576
20°	14812	15377	15737
25°	14722	15391	15617
30°	14553	15188	15236
35°	14293	14696	14520
40°	13729	13813	13595
45°	12792	12658	12401
50°	11712	11523	10933
55°	10520	10130	9244
60°	9330	8382	7980
65°	8220	6964	7242
70°	7352	6043	6897
75°	6887	5876	6975
80°	6705	5941	6640
85°	5352	4699	4874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1041.0	3.8
10°-20°	3066.5	11.3
20°-30°	4717.4	17.3
30°-40°	5505.5	20.2
40°-50°	5116.0	18.8
50°-60°	3792.2	13.9
60°-70°	2318.2	8.5
70°-80°	1320.4	4.8
80°-90°	377.7	1.4
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°	8824.9	32.4
0°-40°	14330.4	52.6
0°-60°	23238.7	85.3
0°-90°	27255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10928	10928	10928	10928	10928	
5°	10951	10900	10906	10898	10960	###
15°	10641	10635	10841	11055	11182	3004
25°	9916	9993	10368	10455	10520	4568
35°	8702	8769	8947	8874	8840	5422
45°	6723	6762	6652	6548	6517	5180
55°	4485	4372	4318	4011	3941	4025
65°	2582	2345	2187	2247	2275	2584
75°	1325	1243	1130	1288	1342	1418
85°	347	338	304	316	316	400
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10928.5	10928.5	10928.5	10928.5	10928.5
2.5°	10987.7	10925.7	10914.4	10889.0	10945.4
5°	10951.0	10900.3	10905.9	10897.5	10959.5
7.5°	10908.7	10872.1	10894.6	10891.8	10973.6
10°	10835.4	10815.7	10872.1	10934.1	11066.6
12.5°	10753.7	10734.0	10858.0	11015.9	11159.6
15°	10641.0	10635.3	10841.1	11055.3	11182.2
17.5°	10500.0	10508.5	10821.4	11004.6	11117.3
20°	10345.0	10359.1	10739.6	10889.0	10990.5
22.5°	10144.8	10192.8	10581.8	10705.8	10784.7
25°	9916.5	9992.6	10367.5	10454.9	10519.7
27.5°	9671.3	9747.4	10102.6	10147.7	10184.3
30°	9366.9	9474.0	9775.6	9781.2	9806.6
32.5°	9056.8	9152.6	9383.8	9358.4	9364.0
35°	8701.6	8769.3	8946.9	8873.6	8839.7
37.5°	8292.9	8329.5	8442.3	8332.4	8326.7
40°	7816.5	7864.4	7864.4	7712.2	7740.4
42.5°	7309.1	7326.0	7255.6	7111.8	7134.4
45°	6722.8	6762.3	6652.4	6548.1	6517.1
47.5°	6142.2	6181.6	6066.0	5944.8	5891.3
50°	5595.3	5575.6	5505.1	5299.3	5223.2
52.5°	5028.7	4966.7	4938.5	4636.9	4549.5
55°	4484.7	4372.0	4318.4	4011.1	3940.7
57.5°	3980.1	3777.2	3675.7	3436.1	3407.9
60°	3467.1	3238.8	3114.8	2959.7	2965.4
62.5°	3002.0	2762.4	2613.0	2567.9	2587.7
65°	2582.0	2345.2	2187.4	2246.6	2274.8
67.5°	2201.5	2007.0	1829.4	1967.5	1995.7
70°	1868.9	1713.8	1536.2	1739.2	1753.3
72.5°	1592.6	1465.8	1316.4	1508.1	1539.1
75°	1324.8	1243.1	1130.3	1288.2	1341.7
77.5°	1090.9	1026.0	961.2	1057.0	1116.2
80°	865.4	800.5	766.7	817.5	856.9
82.5°	611.7	569.4	535.6	572.2	591.9
85°	346.7	338.3	304.4	315.7	315.7
87.5°	78.9	90.2	101.5	93.0	78.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)