

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-AWG-UNV-L735-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 (P23764)
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-AWG-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

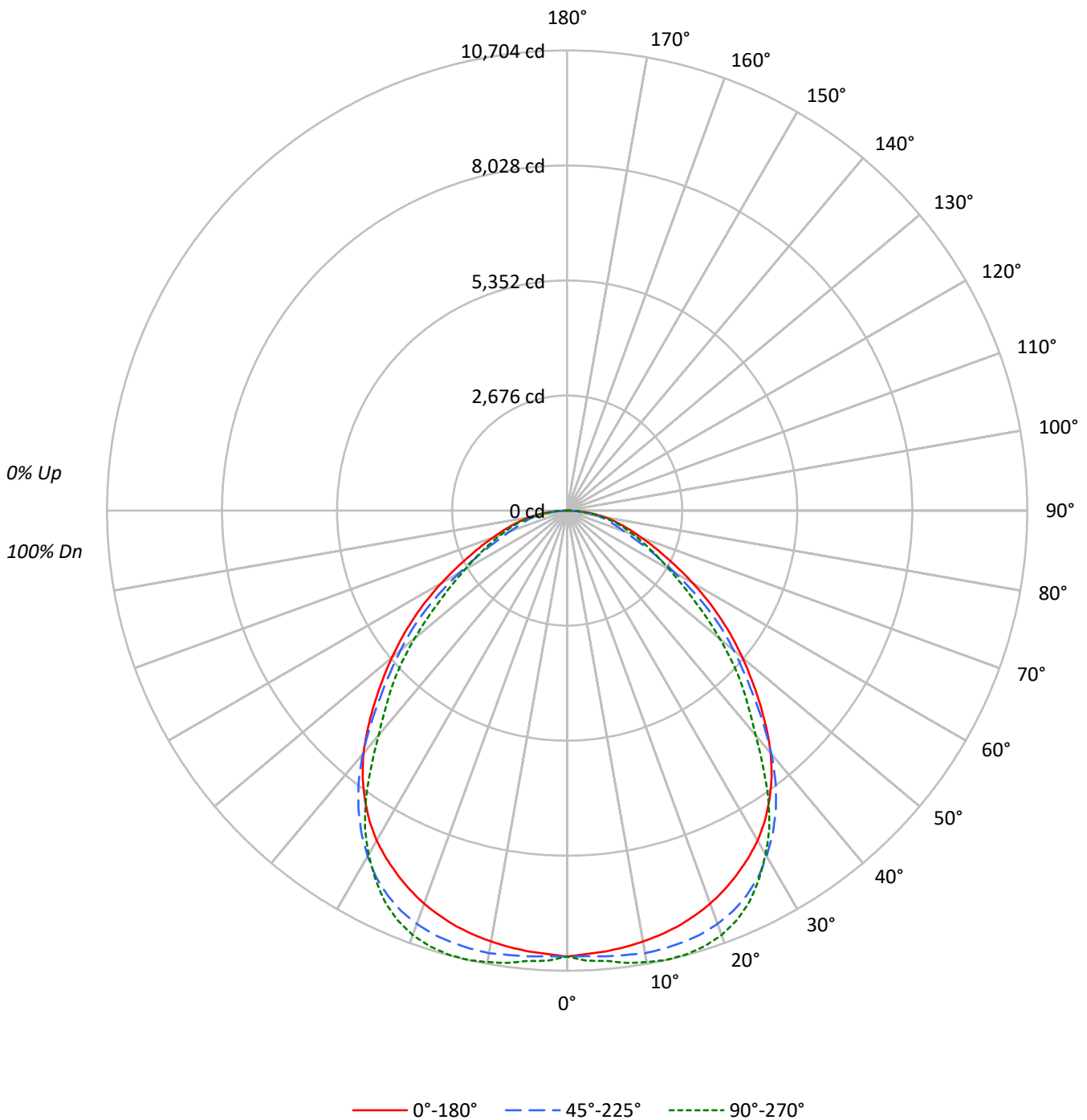
Lumens per Lamp: N/A
Luminaire Lumens: 25714.0 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	85	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	69	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57					55				
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50					48				
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	54	49	44					42				
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40					38				
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13956	13956	13956
5°	13903	14058	14201
10°	13906	14284	14571
15°	13933	14482	14889
20°	13930	14648	15042
25°	13870	14667	14904
30°	13767	14422	14346
35°	13475	13901	13395
40°	12948	12985	11975
45°	12052	11707	10947
50°	11140	10586	9700
55°	10198	9382	8370
60°	9093	7787	7392
65°	7975	6408	6792
70°	7201	5520	6467
75°	6882	5411	6449
80°	6938	5728	6292
85°	6146	5247	5493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	996.4	3.9
10°-20°	2936.4	11.4
20°-30°	4504.0	17.5
30°-40°	5180.3	20.1
40°-50°	4724.8	18.4
50°-60°	3541.3	13.8
60°-70°	2178.3	8.5
70°-80°	1248.3	4.9
80°-90°	404.2	1.6
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°	8436.9	32.8
0°-40°	13617.2	53.0
0°-60°	21883.2	85.1
0°-90°	25714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	25714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10373	10373	10373	10373	10373	
5°	10294	10398	10408	10494	10514	979
15°	10002	10225	10397	10619	10689	2824
25°	9342	9611	9880	10032	10040	4305
35°	8204	8364	8463	8324	8155	5116
45°	6334	6471	6152	5835	5753	4888
55°	4347	4186	3999	3646	3568	3884
65°	2505	2240	2013	2075	2133	2519
75°	1324	1186	1041	1192	1241	1416
85°	398	376	340	358	356	444
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10372.8	10372.8	10372.8	10372.8	10372.8
2.5°	10323.9	10397.9	10374.1	10435.0	10479.9
5°	10293.5	10397.9	10408.5	10494.5	10514.3
7.5°	10241.9	10378.1	10425.7	10577.8	10612.2
10°	10178.4	10342.4	10454.8	10618.8	10665.1
12.5°	10101.7	10292.1	10435.0	10637.3	10703.5
15°	10002.5	10224.7	10396.6	10618.8	10688.9
17.5°	9876.9	10134.8	10335.8	10554.0	10626.7
20°	9728.7	10001.2	10230.0	10453.5	10505.1
22.5°	9550.2	9824.0	10084.5	10285.5	10313.3
25°	9342.5	9611.0	9879.5	10031.6	10039.5
27.5°	9116.4	9366.4	9617.6	9699.6	9663.9
30°	8861.1	9084.6	9283.0	9300.2	9234.1
32.5°	8558.3	8759.3	8900.8	8863.8	8752.7
35°	8203.8	8363.9	8463.0	8324.2	8154.9
37.5°	7815.0	7935.3	7968.4	7666.9	7473.8
40°	7371.9	7475.1	7393.1	6973.8	6817.8
42.5°	6861.4	6980.5	6770.2	6356.2	6261.0
45°	6333.7	6471.3	6152.5	5835.1	5753.1
47.5°	5816.6	5942.2	5581.2	5325.9	5204.3
50°	5322.0	5376.2	5057.5	4769.1	4634.2
52.5°	4835.3	4781.0	4554.9	4196.5	4077.4
55°	4347.2	4185.9	3999.4	3646.3	3568.3
57.5°	3857.9	3633.1	3429.4	3158.3	3127.8
60°	3379.1	3102.7	2893.8	2732.4	2747.0
62.5°	2922.9	2641.1	2417.6	2366.1	2421.6
65°	2504.9	2240.4	2012.9	2075.1	2133.3
67.5°	2157.1	1903.2	1671.7	1830.4	1876.7
70°	1830.4	1625.4	1403.2	1608.2	1643.9
72.5°	1569.9	1395.3	1202.2	1401.9	1432.3
75°	1323.9	1186.3	1040.9	1191.6	1240.6
77.5°	1109.6	995.9	896.7	985.3	1038.2
80°	895.4	798.8	739.3	779.0	812.1
82.5°	656.0	593.8	550.2	567.4	572.7
85°	398.1	375.6	339.9	358.4	355.8
87.5°	130.9	149.4	157.4	141.5	133.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)