

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-LD5-30HE-W-A-UNV-L735-ED2-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 (P23761)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-A-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

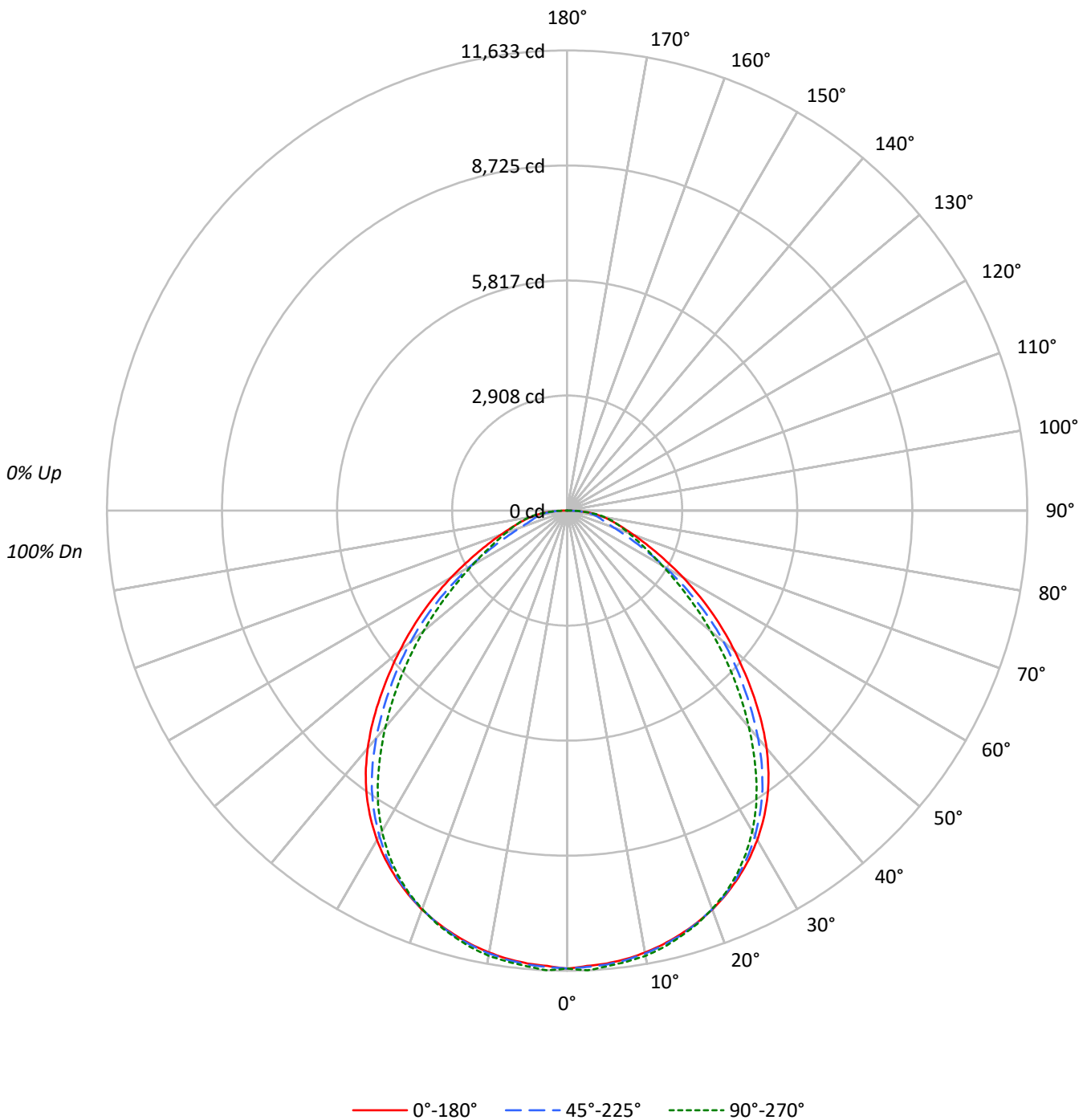
Lumens per Lamp: N/A
Luminaire Lumens: 26595.0 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 180
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					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15577	15577	15577
5°	15522	15557	15621
10°	15500	15536	15614
15°	15448	15479	15516
20°	15367	15356	15345
25°	15201	15148	15063
30°	14938	14757	14542
35°	14504	14139	13704
40°	13783	13191	12558
45°	12733	12022	11294
50°	11574	10825	9935
55°	10407	9372	8588
60°	9107	7659	7452
65°	7852	6023	6726
70°	7001	4915	6482
75°	6706	4799	6774
80°	7254	5676	7547
85°	8143	6833	8224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.2	4.1
10°-20°	3140.2	11.8
20°-30°	4697.5	17.7
30°-40°	5359.4	20.2
40°-50°	4878.5	18.3
50°-60°	3582.3	13.5
60°-70°	2115.2	8.0
70°-80°	1212.2	4.6
80°-90°	512.5	1.9
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°	8934.9	33.6
0°-40°	14294.3	53.7
0°-60°	22755.1	85.6
0°-90°	26595.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26595.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11577	11577	11577	11577	11577	
5°	11492	11564	11518	11564	11566	###
15°	11090	11152	11112	11152	11139	3129
25°	10239	10276	10204	10200	10146	4713
35°	8830	8787	8608	8461	8343	5502
45°	6692	6652	6318	6035	5936	5157
55°	4437	4232	3995	3706	3661	3968
65°	2466	2153	1892	2024	2113	2482
75°	1290	1106	923	1204	1303	1390
85°	528	487	443	522	533	552
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11577.3	11577.3	11577.3	11577.3	11577.3
2.5°	11523.7	11590.3	11548.5	11594.2	11633.4
5°	11492.4	11564.2	11518.5	11564.2	11565.5
7.5°	11434.9	11501.5	11457.1	11506.7	11501.5
10°	11344.8	11411.4	11371.0	11424.5	11428.4
12.5°	11229.9	11293.9	11252.1	11313.5	11303.1
15°	11090.2	11151.6	11112.4	11151.6	11138.6
17.5°	10925.7	10981.9	10931.0	10974.0	10951.8
20°	10732.5	10779.5	10724.7	10765.1	10716.8
22.5°	10501.4	10543.2	10485.7	10507.9	10458.3
25°	10239.0	10275.5	10203.7	10199.8	10146.3
27.5°	9946.5	9966.1	9874.7	9843.3	9782.0
30°	9614.9	9620.1	9498.6	9439.9	9360.2
32.5°	9242.7	9229.7	9074.3	8986.8	8888.9
35°	8830.2	8787.1	8608.2	8460.7	8343.1
37.5°	8364.0	8296.1	8082.0	7864.0	7751.7
40°	7847.0	7767.3	7510.1	7239.9	7149.8
42.5°	7284.3	7216.4	6913.4	6631.4	6542.6
45°	6691.5	6652.3	6318.1	6034.7	5935.5
47.5°	6098.7	6070.0	5743.6	5455.0	5334.9
50°	5529.5	5466.8	5171.7	4855.7	4746.1
52.5°	4977.2	4849.2	4589.4	4265.6	4184.6
55°	4436.6	4231.6	3995.3	3705.5	3661.1
57.5°	3901.3	3636.3	3406.5	3189.7	3188.4
60°	3384.3	3081.3	2846.3	2732.7	2769.3
62.5°	2899.9	2589.1	2334.5	2342.3	2408.9
65°	2466.4	2153.0	1891.9	2023.8	2112.6
67.5°	2094.3	1795.3	1530.2	1775.7	1860.6
70°	1779.6	1509.3	1249.5	1556.3	1647.7
72.5°	1514.6	1287.4	1053.7	1373.6	1466.3
75°	1290.0	1105.9	923.1	1203.8	1303.0
77.5°	1107.2	944.0	827.8	1041.9	1145.1
80°	936.2	792.5	732.5	885.2	974.0
82.5°	741.6	642.4	607.1	719.4	765.1
85°	527.5	487.0	442.6	522.3	532.7
87.5°	289.9	300.3	248.1	300.3	301.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)