

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-N-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

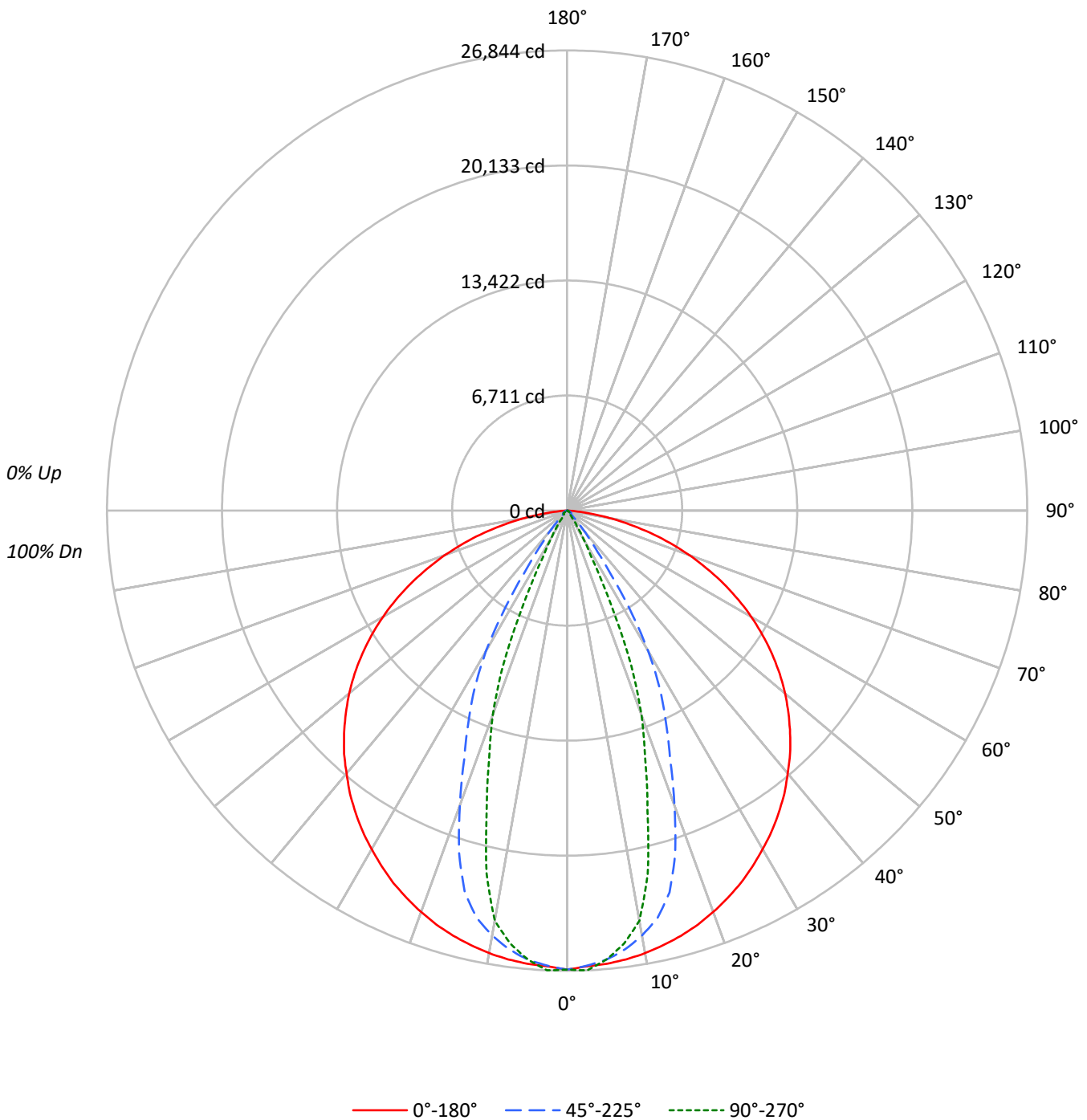
Lumens per Lamp: N/A
Luminaire Lumens: 28463.0 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36031	36031	36031
5°	35839	35522	35506
10°	35816	34384	33178
15°	35766	32122	25250
20°	35682	26186	18175
25°	35592	20248	8953
30°	35434	14716	2904
35°	35350	6529	747
40°	35165	2651	503
45°	35008	744	536
50°	34735	528	595
55°	34235	627	254
60°	33390	699	154
65°	32017	446	182
70°	29744	396	225
75°	26020	298	311
80°	19455	365	444
85°	9636	472	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2485.2	8.7
10°-20°	6214.1	21.8
20°-30°	6730.9	23.6
30°-40°	4984.5	17.5
40°-50°	3590.1	12.6
50°-60°	2223.0	7.8
60°-70°	1367.1	4.8
70°-80°	720.7	2.5
80°-90°	147.5	0.5
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°	15430.1	54.2
0°-40°	20414.6	71.7
0°-60°	26227.7	92.1
0°-90°	28463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26779	26779	26779	26779	26779	
5°	26535	26633	26300	26319	26289	###
15°	25676	25080	23061	19611	18127	7248
25°	23974	21960	13639	8580	6031	11047
35°	21522	15172	3975	935	455	13464
45°	18398	8548	391	283	282	14189
55°	14594	1761	268	242	108	13028
65°	10056	186	140	89	57	9922
75°	5005	43	57	75	60	5287
85°	624	17	31	46	38	943
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26779.3	26779.3	26779.3	26779.3	26779.3
2.5°	26607.3	26776.7	26576.7	26725.8	26844.3
5°	26534.7	26632.8	26300.3	26319.4	26288.8
7.5°	26407.3	26384.4	25825.1	25580.5	25473.5
10°	26214.9	26063.3	25166.5	24655.6	24283.7
12.5°	25966.5	25627.7	24344.8	22720.5	21711.6
15°	25676.1	25079.9	23060.7	19610.9	18126.8
17.5°	25329.6	24484.9	20961.2	16436.2	15111.4
20°	24920.6	23821.2	18288.5	13983.9	12693.4
22.5°	24464.6	23013.5	15692.3	11622.1	9781.2
25°	23974.1	21960.0	13638.7	8579.9	6030.8
27.5°	23407.2	20605.8	11712.5	5053.7	3077.8
30°	22807.2	18975.2	9471.7	2718.6	1868.9
32.5°	22202.1	17126.7	6702.1	1698.1	1059.9
35°	21521.8	15172.5	3974.7	935.1	454.8
37.5°	20812.2	13381.4	2349.1	425.5	291.7
40°	20021.1	11744.4	1509.6	282.8	286.6
42.5°	19256.7	10218.2	849.7	279.0	284.1
45°	18398.1	8548.1	391.1	282.8	281.5
47.5°	17510.2	6816.8	253.5	285.4	285.4
50°	16594.2	4874.1	252.2	291.7	284.1
52.5°	15627.3	3040.9	262.4	290.5	233.1
55°	14594.1	1760.6	267.5	242.0	108.3
57.5°	13524.0	1038.3	270.1	138.9	61.1
60°	12408.1	574.5	259.9	103.2	57.3
62.5°	11257.7	273.9	205.1	96.8	56.1
65°	10056.4	186.0	140.1	89.2	57.3
67.5°	8809.2	144.0	110.8	84.1	58.6
70°	7560.8	107.0	100.6	84.1	57.3
72.5°	6291.9	72.6	84.1	85.4	57.3
75°	5005.3	43.3	57.3	75.2	59.9
77.5°	3730.1	26.8	44.6	77.7	72.6
80°	2510.9	22.9	47.1	72.6	57.3
82.5°	1473.9	20.4	45.9	56.1	45.9
85°	624.2	16.6	30.6	45.9	38.2
87.5°	117.2	14.0	24.2	36.9	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)