

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-FLI-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 (P26703)
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-FLI-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

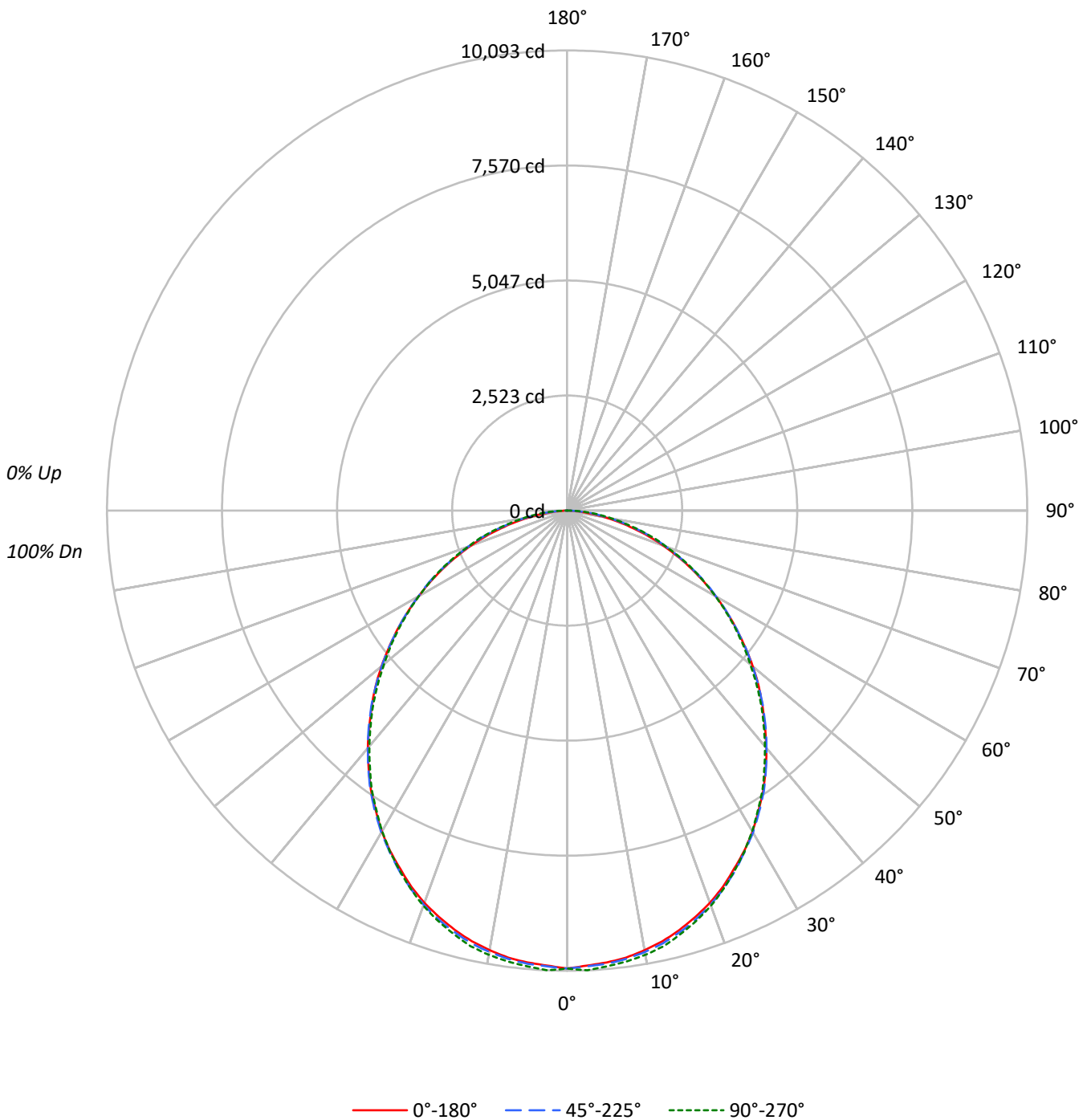
Lumens per Lamp: N/A
Luminaire Lumens: 26237.0 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13514	13514	13514
5°	13438	13475	13552
10°	13377	13431	13518
15°	13259	13331	13396
20°	13109	13172	13210
25°	12866	12939	12920
30°	12629	12663	12611
35°	12316	12348	12269
40°	11946	11946	11854
45°	11528	11560	11442
50°	11132	11113	10974
55°	10650	10652	10556
60°	10134	10146	10107
65°	9552	9647	9672
70°	8822	9064	9074
75°	7797	8302	8431
80°	6395	7270	7681
85°	4437	6104	6902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	949.9	3.6
10°-20°	2702.4	10.3
20°-30°	4015.9	15.3
30°-40°	4695.6	17.9
40°-50°	4681.7	17.8
50°-60°	4061.9	15.5
60°-70°	3000.2	11.4
70°-80°	1679.8	6.4
80°-90°	448.2	1.7
90°-100°	1.3	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°	7668.2	29.2
0°-40°	12363.8	47.1
0°-60°	21107.4	80.4
0°-90°	26235.7	100.0
90°-120°	1.3	0.0
90°-150°	1.3	0.0
90°-180°	1.0	0.0
0°-180°	26237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10044	10044	10044	10044	10044	
5°	9949	10012	9977	10021	10034	945
15°	9519	9585	9570	9616	9617	2684
25°	8666	8736	8716	8735	8703	3996
35°	7498	7564	7517	7516	7470	4684
45°	6058	6123	6075	6050	6013	4677
55°	4540	4572	4541	4533	4500	4060
65°	3000	3030	3030	3046	3038	2967
75°	1500	1544	1597	1608	1622	1597
85°	287	348	395	430	447	349
90°	0	6	8	17	16	12
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10044.3	10044.3	10044.3	10044.3	10044.3
2.5°	9989.3	10048.7	10007.2	10046.8	10092.8
5°	9949.1	10011.7	9977.2	10021.3	10034.0
7.5°	9890.3	9951.0	9917.8	9961.9	9975.3
10°	9790.7	9856.5	9830.3	9880.1	9894.2
12.5°	9674.4	9736.4	9719.1	9777.3	9786.9
15°	9518.6	9585.0	9570.3	9616.3	9616.9
17.5°	9346.1	9408.7	9397.9	9433.6	9432.3
20°	9155.1	9222.2	9199.2	9238.2	9226.0
22.5°	8929.0	9000.6	8971.8	9004.4	8973.7
25°	8666.5	8736.1	8715.7	8734.8	8702.9
27.5°	8412.3	8476.1	8434.0	8457.0	8423.1
30°	8128.7	8183.0	8150.4	8158.1	8117.2
32.5°	7809.9	7874.4	7834.8	7833.6	7790.1
35°	7498.2	7564.0	7517.4	7516.1	7469.5
37.5°	7153.3	7214.6	7159.7	7162.9	7108.6
40°	6801.4	6854.4	6801.4	6798.8	6749.0
42.5°	6419.4	6489.6	6441.1	6446.9	6380.4
45°	6058.5	6123.0	6075.1	6050.2	6013.1
47.5°	5698.9	5727.0	5687.4	5681.0	5628.6
50°	5318.2	5339.3	5309.2	5301.6	5242.8
52.5°	4924.7	4961.1	4922.8	4912.6	4873.6
55°	4540.2	4571.5	4540.8	4533.2	4500.0
57.5°	4153.1	4194.0	4162.7	4155.0	4128.2
60°	3766.0	3778.2	3770.5	3782.0	3755.8
62.5°	3381.5	3409.6	3418.6	3415.4	3394.9
65°	3000.2	3029.6	3030.2	3045.5	3037.9
67.5°	2609.9	2648.2	2659.1	2675.1	2682.1
70°	2242.6	2272.0	2304.0	2313.5	2306.5
72.5°	1872.8	1920.1	1955.8	1964.1	1994.2
75°	1499.8	1544.5	1596.9	1608.4	1621.8
77.5°	1153.6	1213.0	1260.2	1275.6	1292.2
80°	825.3	891.0	938.3	959.4	991.3
82.5°	541.7	608.7	656.6	677.7	716.7
85°	287.4	347.5	395.4	430.5	447.1
87.5°	85.0	136.1	163.5	173.7	188.4
90°	0.0	6.4	7.7	17.2	16.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)