

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-CL-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 (P23762)
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-CL-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

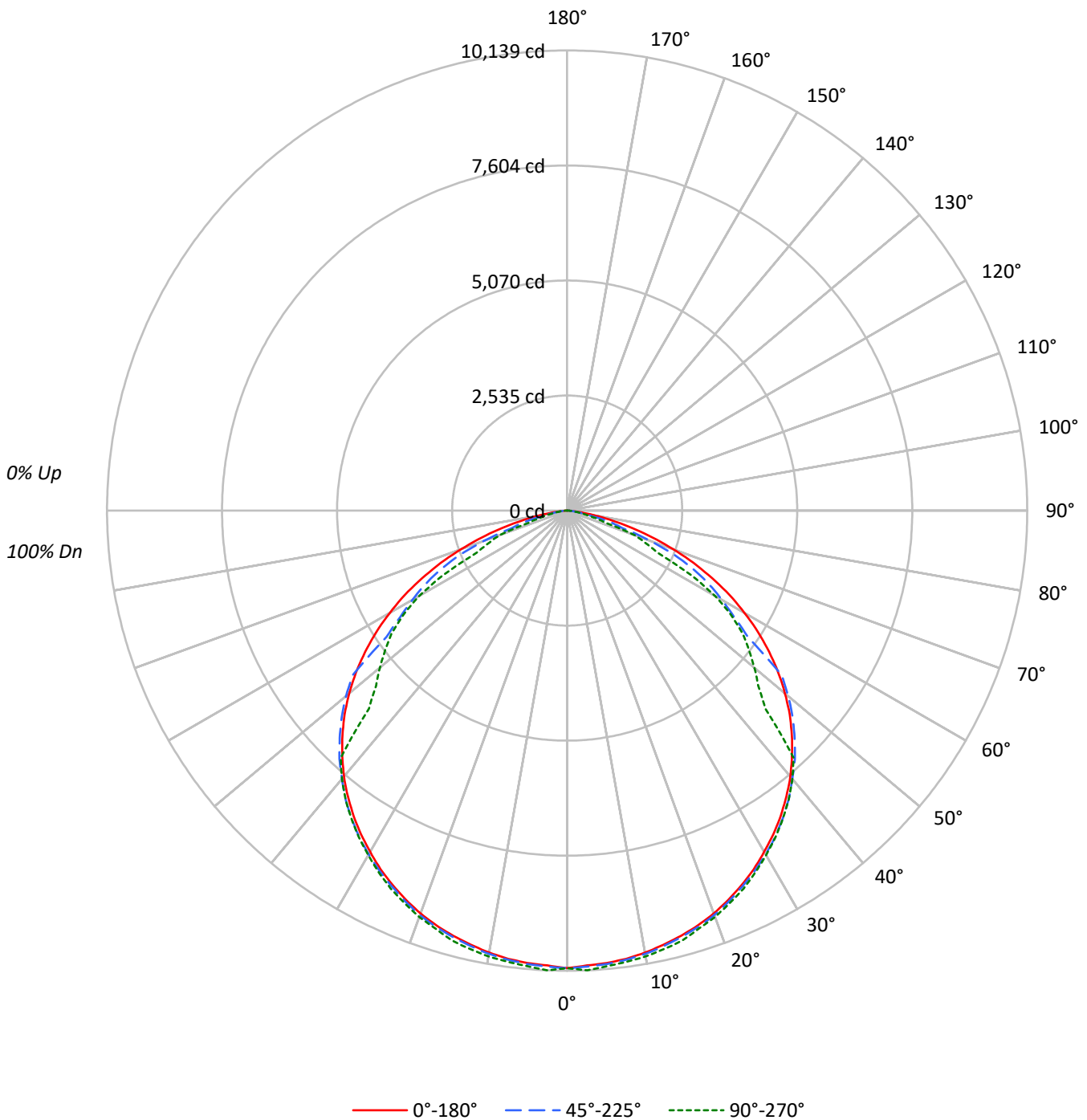
Lumens per Lamp: N/A
Luminaire Lumens: 27251.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64					62				
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55					53				
5	77	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48					46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42					40				
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38					36				
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34					32				
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30					29				
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28					26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13563	13563	13563
5°	13513	13543	13609
10°	13512	13550	13629
15°	13511	13552	13662
20°	13528	13579	13642
25°	13513	13563	13646
30°	13487	13586	13617
35°	13480	13604	13614
40°	13439	13557	13557
45°	13323	13484	11749
50°	13118	13315	11273
55°	12746	11398	11073
60°	12147	10595	10116
65°	11234	9835	7006
70°	9782	7653	6243
75°	7727	5136	3356
80°	4974	2454	2092
85°	2047	1497	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.2	3.5
10°-20°	2756.1	10.1
20°-30°	4225.4	15.5
30°-40°	5178.9	19.0
40°-50°	5324.3	19.5
50°-60°	4544.1	16.7
60°-70°	3004.2	11.0
70°-80°	1113.0	4.1
80°-90°	148.8	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°	7937.7	29.1
0°-40°	13116.6	48.1
0°-60°	22985.0	84.3
0°-90°	27251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10080	10080	10080	10080	10080	
5°	10005	10075	10027	10066	10076	952
15°	9700	9758	9729	9803	9808	2740
25°	9102	9150	9136	9218	9192	4197
35°	8207	8264	8282	8334	8288	5134
45°	7002	7072	7087	7076	6175	5396
55°	5433	5533	4859	4718	4720	4848
65°	3529	3558	3089	2541	2201	3479
75°	1486	1302	988	664	646	1595
85°	133	94	97	106	107	219
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10080.0	10080.0	10080.0	10080.0	10080.0
2.5°	10030.9	10093.5	10056.7	10103.4	10139.0
5°	10005.2	10075.1	10027.3	10066.5	10076.4
7.5°	9961.0	10026.0	9981.9	10033.4	10026.0
10°	9889.8	9948.7	9918.0	9972.0	9975.7
12.5°	9799.0	9857.9	9829.7	9895.9	9894.7
15°	9699.6	9758.5	9729.0	9802.7	9807.6
17.5°	9583.0	9637.0	9614.9	9682.4	9655.4
20°	9448.0	9494.6	9483.6	9547.4	9527.7
22.5°	9282.3	9330.1	9319.1	9392.7	9363.3
25°	9101.9	9149.7	9136.2	9218.5	9191.5
27.5°	8906.7	8952.1	8950.9	9028.2	8986.5
30°	8680.9	8741.0	8744.7	8813.4	8764.3
32.5°	8457.5	8514.0	8529.9	8580.2	8538.5
35°	8207.1	8263.6	8282.0	8333.6	8288.1
37.5°	7937.1	7985.0	8018.1	8056.2	8020.6
40°	7651.2	7694.1	7718.7	7765.3	7718.7
42.5°	7332.1	7393.4	7427.8	7460.9	7384.8
45°	7001.9	7071.9	7086.6	7075.5	6174.7
47.5°	6652.1	6728.2	6736.8	5875.2	5709.5
50°	6266.7	6362.5	6361.2	5429.7	5385.5
52.5°	5865.4	5957.4	5953.8	5081.1	5051.7
55°	5433.4	5532.8	4859.0	4717.8	4720.3
57.5°	4992.8	5064.0	4359.5	4365.6	4284.6
60°	4514.1	4581.6	3937.3	3899.2	3759.3
62.5°	4034.2	4062.5	3528.6	3343.2	3076.9
65°	3528.6	3558.0	3089.2	2540.6	2200.6
67.5°	3009.4	3038.9	2563.9	1890.1	1864.3
70°	2486.6	2246.0	1945.3	1574.7	1586.9
72.5°	1971.1	1725.6	1271.5	1220.0	881.2
75°	1486.3	1302.2	988.0	664.0	645.6
77.5°	1034.6	897.2	529.0	452.9	423.4
80°	641.9	450.4	316.7	281.1	270.0
82.5°	325.2	259.0	171.8	171.8	171.8
85°	132.6	94.5	97.0	105.6	106.8
87.5°	28.2	38.0	46.6	47.9	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)