

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-L840-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-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

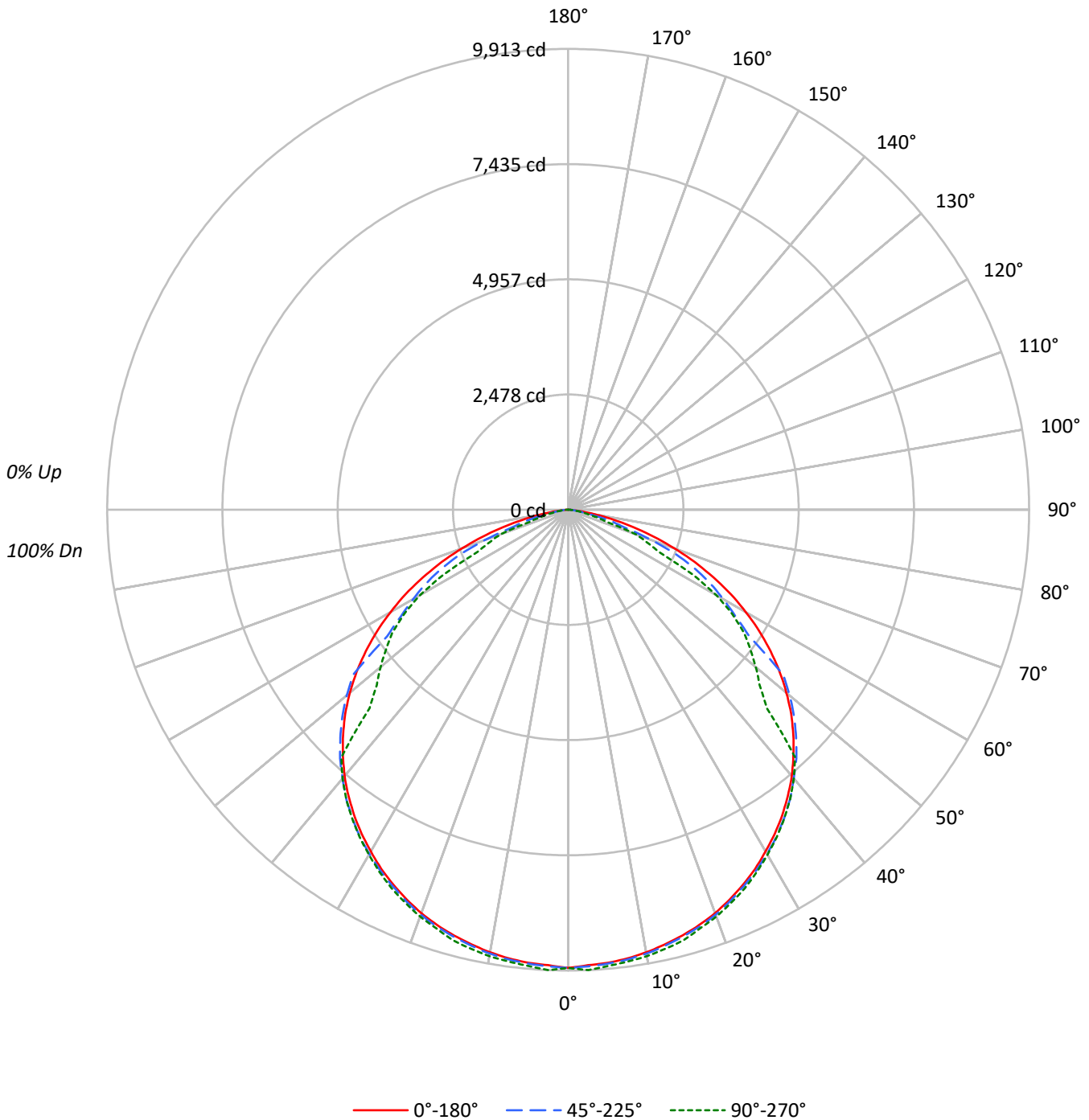
Lumens per Lamp: N/A
Luminaire Lumens: 26643.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	13260	13260	13260
5°	13212	13241	13306
10°	13211	13248	13325
15°	13210	13250	13357
20°	13226	13276	13338
25°	13211	13261	13341
30°	13186	13283	13313
35°	13180	13300	13310
40°	13139	13255	13255
45°	13026	13184	11487
50°	12825	13018	11022
55°	12461	11144	10826
60°	11876	10359	9890
65°	10983	9616	6850
70°	9564	7482	6104
75°	7554	5022	3281
80°	4863	2399	2046
85°	2001	1463	1612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.8	3.5
10°-20°	2694.6	10.1
20°-30°	4131.2	15.5
30°-40°	5063.4	19.0
40°-50°	5205.5	19.5
50°-60°	4442.7	16.7
60°-70°	2937.1	11.0
70°-80°	1088.2	4.1
80°-90°	145.5	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°	7760.6	29.1
0°-40°	12823.9	48.1
0°-60°	22472.2	84.3
0°-90°	26643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9855	9855	9855	9855	9855	
5°	9782	9850	9804	9842	9852	930
15°	9483	9541	9512	9584	9589	2679
25°	8899	8946	8932	9013	8986	4103
35°	8024	8079	8097	8148	8103	5019
45°	6846	6914	6928	6918	6037	5276
55°	5312	5409	4751	4613	4615	4740
65°	3450	3479	3020	2484	2152	3402
75°	1453	1273	966	649	631	1559
85°	130	92	95	103	104	214
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9855.1	9855.1	9855.1	9855.1	9855.1
2.5°	9807.1	9868.3	9832.3	9877.9	9912.7
5°	9781.9	9850.3	9803.5	9841.9	9851.5
7.5°	9738.8	9802.3	9759.1	9809.5	9802.3
10°	9669.2	9726.8	9696.8	9749.6	9753.2
12.5°	9580.4	9638.0	9610.4	9675.2	9674.0
15°	9483.2	9540.8	9512.0	9584.0	9588.8
17.5°	9369.2	9422.0	9400.4	9466.4	9440.0
20°	9237.2	9282.8	9272.0	9334.4	9315.2
22.5°	9075.2	9122.0	9111.2	9183.2	9154.4
25°	8898.8	8945.6	8932.4	9012.8	8986.4
27.5°	8708.0	8752.4	8751.2	8826.8	8786.0
30°	8487.2	8546.0	8549.6	8616.8	8568.8
32.5°	8268.8	8324.0	8339.6	8388.8	8348.0
35°	8024.0	8079.2	8097.2	8147.6	8103.2
37.5°	7760.0	7806.8	7839.2	7876.4	7841.6
40°	7480.5	7522.5	7546.5	7592.0	7546.5
42.5°	7168.5	7228.5	7262.1	7294.5	7220.1
45°	6845.7	6914.1	6928.5	6917.7	6036.9
47.5°	6503.7	6578.1	6586.5	5744.1	5582.1
50°	6126.9	6220.5	6219.3	5308.6	5265.4
52.5°	5734.5	5824.5	5820.9	4967.8	4939.0
55°	5312.2	5409.4	4750.6	4612.6	4615.0
57.5°	4881.4	4951.0	4262.2	4268.2	4189.0
60°	4413.4	4479.4	3849.4	3812.2	3675.4
62.5°	3944.2	3971.8	3449.8	3268.6	3008.3
65°	3449.8	3478.6	3020.3	2483.9	2151.5
67.5°	2942.3	2971.1	2506.7	1847.9	1822.7
70°	2431.1	2195.9	1901.9	1539.5	1551.5
72.5°	1927.1	1687.1	1243.1	1192.7	861.6
75°	1453.1	1273.1	966.0	649.2	631.2
77.5°	1011.6	877.2	517.2	442.8	414.0
80°	627.6	440.4	309.6	274.8	264.0
82.5°	318.0	253.2	168.0	168.0	168.0
85°	129.6	92.4	94.8	103.2	104.4
87.5°	27.6	37.2	45.6	46.8	45.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)