

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-CL-UNV-L840-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 (P23762)
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-CL-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

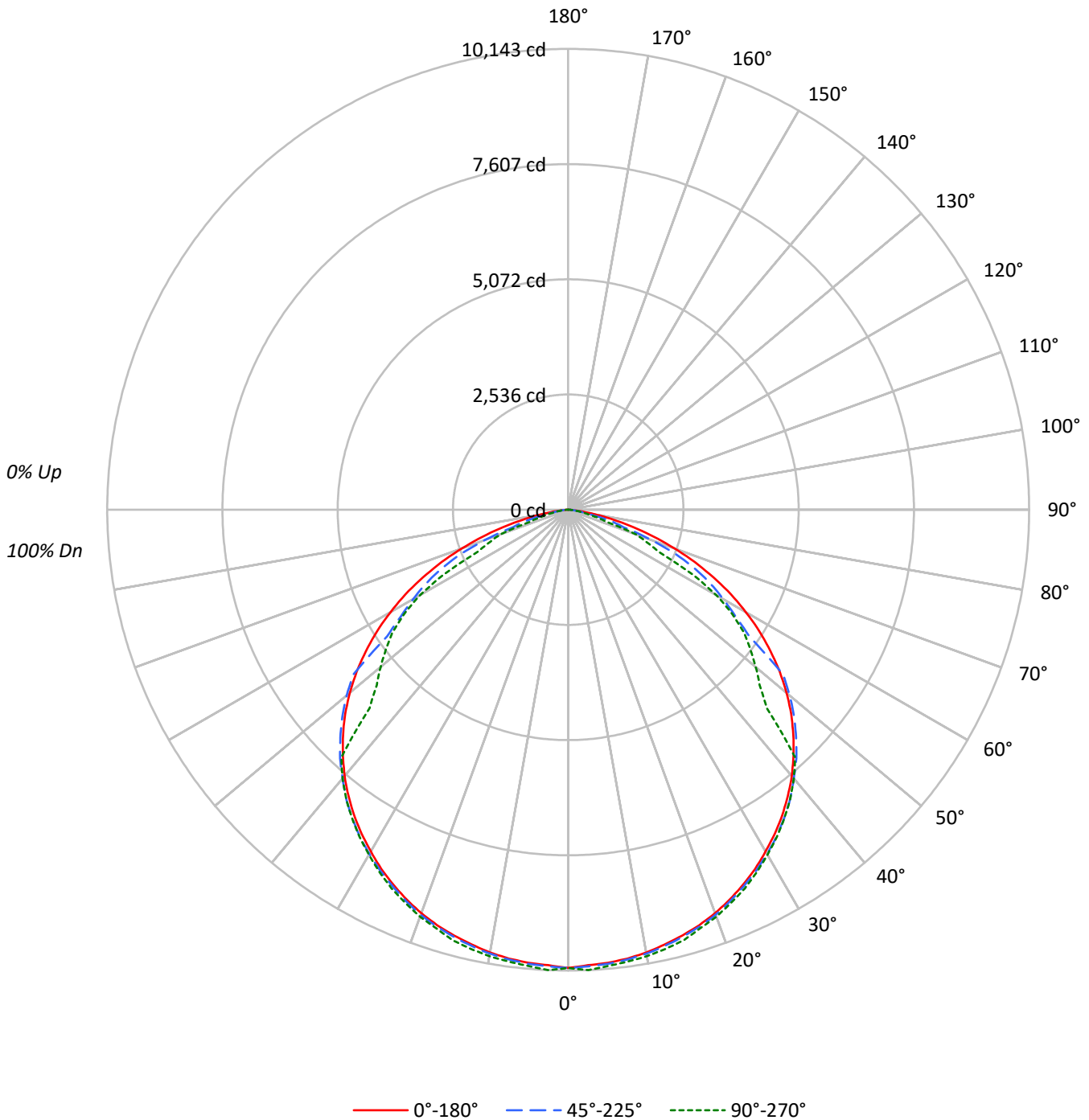
Lumens per Lamp: N/A
Luminaire Lumens: 27263.0 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	13569	13569	13569
5°	13519	13549	13615
10°	13518	13556	13635
15°	13517	13558	13668
20°	13534	13585	13648
25°	13518	13570	13651
30°	13493	13592	13623
35°	13487	13610	13620
40°	13444	13563	13563
45°	13329	13490	11754
50°	13123	13321	11278
55°	12751	11403	11078
60°	12153	10600	10121
65°	11239	9839	7009
70°	9786	7656	6246
75°	7730	5138	3358
80°	4976	2455	2093
85°	2047	1497	1649



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.6	3.5
10°-20°	2757.3	10.1
20°-30°	4227.3	15.5
30°-40°	5181.2	19.0
40°-50°	5326.7	19.5
50°-60°	4546.1	16.7
60°-70°	3005.5	11.0
70°-80°	1113.5	4.1
80°-90°	148.9	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°	7941.2	29.1
0°-40°	13122.4	48.1
0°-60°	22995.1	84.3
0°-90°	27263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10084	10084	10084	10084	10084	
5°	10010	10080	10032	10071	10081	952
15°	9704	9763	9733	9807	9812	2741
25°	9106	9154	9140	9222	9196	4198
35°	8211	8267	8286	8337	8292	5136
45°	7005	7075	7090	7079	6177	5398
55°	5436	5535	4861	4720	4722	4850
65°	3530	3560	3090	2542	2202	3481
75°	1487	1303	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°	10084.5	10084.5	10084.5	10084.5	10084.5
2.5°	10035.4	10098.0	10061.2	10107.8	10143.4
5°	10009.6	10079.6	10031.7	10071.0	10080.8
7.5°	9965.4	10030.5	9986.3	10037.8	10030.5
10°	9894.2	9953.1	9922.4	9976.4	9980.1
12.5°	9803.3	9862.2	9834.0	9900.3	9899.1
15°	9703.8	9762.8	9733.3	9807.0	9811.9
17.5°	9587.2	9641.2	9619.1	9686.7	9659.6
20°	9452.1	9498.8	9487.7	9551.6	9531.9
22.5°	9286.4	9334.3	9323.2	9396.9	9367.4
25°	9105.9	9153.8	9140.3	9222.5	9195.5
27.5°	8910.6	8956.1	8954.8	9032.2	8990.5
30°	8684.7	8744.9	8748.6	8817.3	8768.2
32.5°	8461.2	8517.7	8533.7	8584.0	8542.3
35°	8210.8	8267.2	8285.7	8337.2	8291.8
37.5°	7940.6	7988.5	8021.7	8059.7	8024.1
40°	7654.5	7697.5	7722.1	7768.7	7722.1
42.5°	7335.3	7396.7	7431.1	7464.2	7388.1
45°	7005.0	7075.0	7089.7	7078.7	6177.4
47.5°	6655.0	6731.2	6739.8	5877.8	5712.0
50°	6269.5	6365.3	6364.0	5432.1	5387.9
52.5°	5868.0	5960.1	5956.4	5083.4	5053.9
55°	5435.8	5535.2	4861.1	4719.9	4722.4
57.5°	4995.0	5066.2	4361.4	4367.5	4286.5
60°	4516.1	4583.6	3939.0	3900.9	3761.0
62.5°	4036.0	4064.2	3530.1	3344.7	3078.3
65°	3530.1	3559.6	3090.5	2541.7	2201.6
67.5°	3010.7	3040.2	2565.0	1890.9	1865.1
70°	2487.7	2247.0	1946.2	1575.4	1587.6
72.5°	1972.0	1726.4	1272.1	1220.5	881.6
75°	1486.9	1302.8	988.4	664.3	645.9
77.5°	1035.1	897.6	529.2	453.1	423.6
80°	642.2	450.6	316.8	281.2	270.1
82.5°	325.4	259.1	171.9	171.9	171.9
85°	132.6	94.5	97.0	105.6	106.8
87.5°	28.2	38.1	46.7	47.9	46.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)