

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-AI-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 (P23765)
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-AI-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

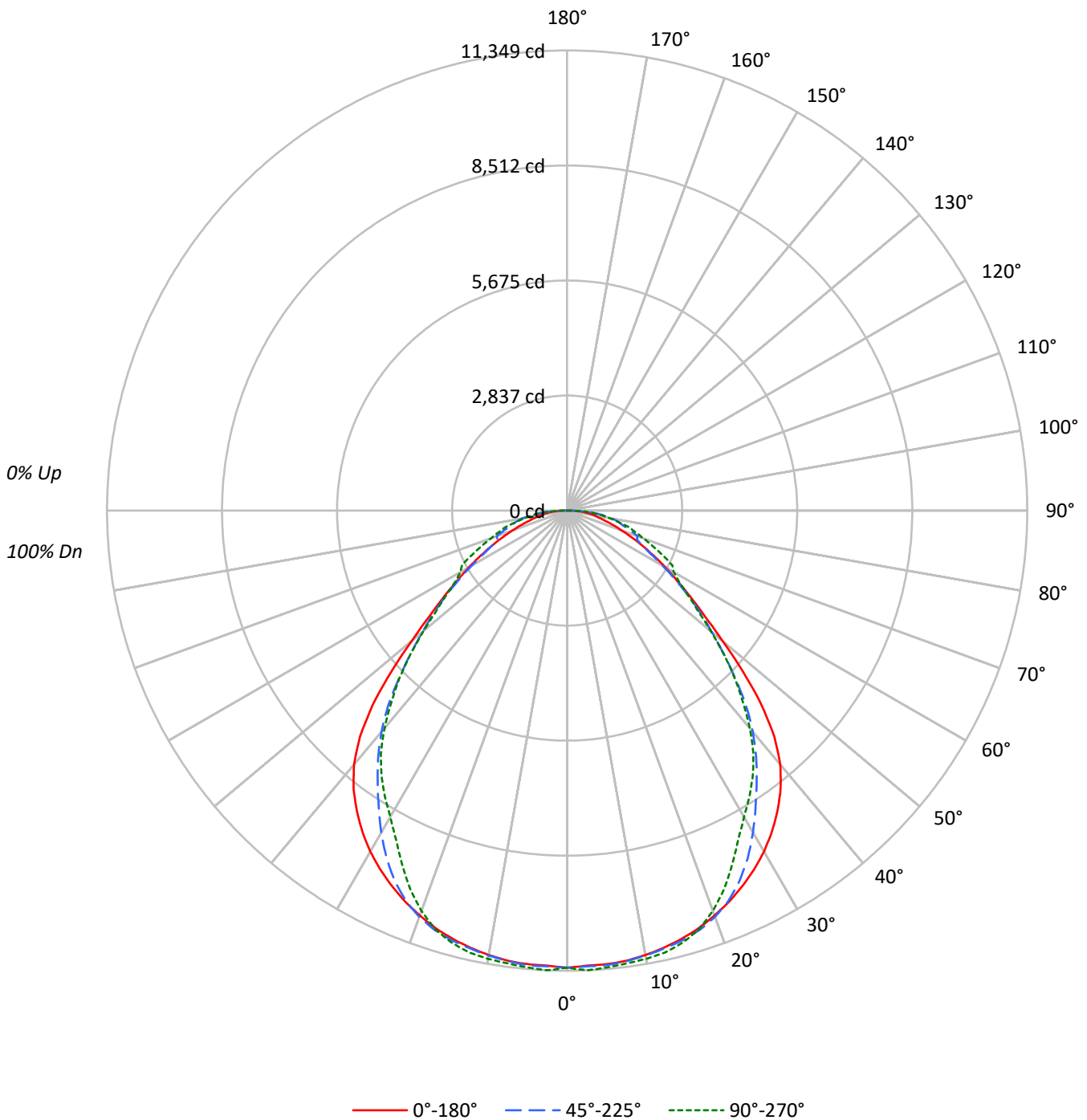
Lumens per Lamp: N/A
Luminaire Lumens: 26094.0 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15168	15168	15168
5°	15168	15200	15275
10°	15205	15224	15336
15°	15229	15285	15360
20°	15213	15270	15043
25°	15175	14947	14297
30°	15085	14242	13548
35°	14858	13386	13107
40°	14361	12516	12310
45°	12908	11176	11135
50°	10469	9735	9668
55°	8693	8532	8529
60°	7527	7307	8169
65°	6523	6482	8234
70°	5625	7272	7849
75°	5044	7453	8183
80°	5243	8773	8210
85°	5951	10110	9380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.4	4.1
10°-20°	3100.0	11.9
20°-30°	4604.2	17.6
30°-40°	5227.0	20.0
40°-50°	4672.7	17.9
50°-60°	3230.7	12.4
60°-70°	2131.8	8.2
70°-80°	1438.2	5.5
80°-90°	616.0	2.4
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°	8777.5	33.6
0°-40°	14004.5	53.7
0°-60°	21908.0	84.0
0°-90°	26094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11273	11273	11273	11273	11273	
5°	11230	11299	11254	11300	11309	###
15°	10933	10985	10973	11035	11027	3086
25°	10222	10318	10068	9768	9630	4710
35°	9046	8856	8150	8031	7980	5641
45°	6784	6209	5874	5918	5852	5159
55°	3706	3383	3637	3586	3636	3366
65°	2049	1819	2036	2381	2586	2045
75°	970	1220	1434	1532	1574	1060
85°	386	536	655	659	608	402
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11273.4	11273.4	11273.4	11273.4	11273.4
2.5°	11235.1	11305.3	11253.0	11301.5	11348.7
5°	11230.0	11298.9	11254.3	11300.2	11309.2
7.5°	11198.1	11261.9	11209.6	11254.3	11264.5
10°	11129.2	11204.5	11143.2	11212.1	11224.9
12.5°	11039.8	11116.4	11062.8	11157.2	11162.4
15°	10932.6	10984.9	10973.4	11034.7	11027.0
17.5°	10797.3	10857.3	10848.3	10863.6	10827.9
20°	10624.9	10692.6	10664.5	10594.3	10506.2
22.5°	10439.8	10521.5	10410.5	10233.0	10109.2
25°	10221.5	10318.5	10068.3	9768.3	9630.5
27.5°	9980.2	10067.1	9650.9	9283.2	9140.3
30°	9709.6	9746.6	9167.1	8817.3	8720.3
32.5°	9396.9	9343.2	8650.1	8419.0	8362.8
35°	9045.8	8855.6	8149.6	8030.9	7979.9
37.5°	8650.1	8301.6	7655.6	7600.7	7547.1
40°	8176.4	7662.0	7125.8	7090.1	7008.4
42.5°	7565.0	6966.3	6537.3	6495.2	6422.4
45°	6783.7	6209.3	5873.5	5918.2	5851.8
47.5°	5885.0	5449.7	5236.5	5359.1	5236.5
50°	5001.6	4709.3	4650.6	4761.6	4618.6
52.5°	4277.8	4014.8	4136.1	4155.2	4069.7
55°	3705.9	3382.9	3637.0	3585.9	3635.7
57.5°	3208.0	2846.8	3159.5	3100.8	3271.9
60°	2797.0	2391.0	2715.3	2702.5	3035.7
62.5°	2393.6	2069.3	2329.7	2517.4	2927.2
65°	2048.9	1819.1	2036.1	2380.8	2586.3
67.5°	1718.3	1631.5	1862.5	2054.0	2278.7
70°	1429.8	1474.4	1848.5	1812.7	1995.3
72.5°	1187.2	1339.1	1631.5	1637.8	1766.8
75°	970.2	1220.4	1433.6	1531.9	1574.0
77.5°	806.8	1106.8	1294.4	1328.9	1288.1
80°	676.6	975.3	1132.3	1117.0	1059.6
82.5°	546.4	739.1	892.3	906.4	838.7
85°	385.5	536.2	654.9	658.7	607.6
87.5°	206.8	330.6	397.0	408.5	377.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)