

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-L850-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-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

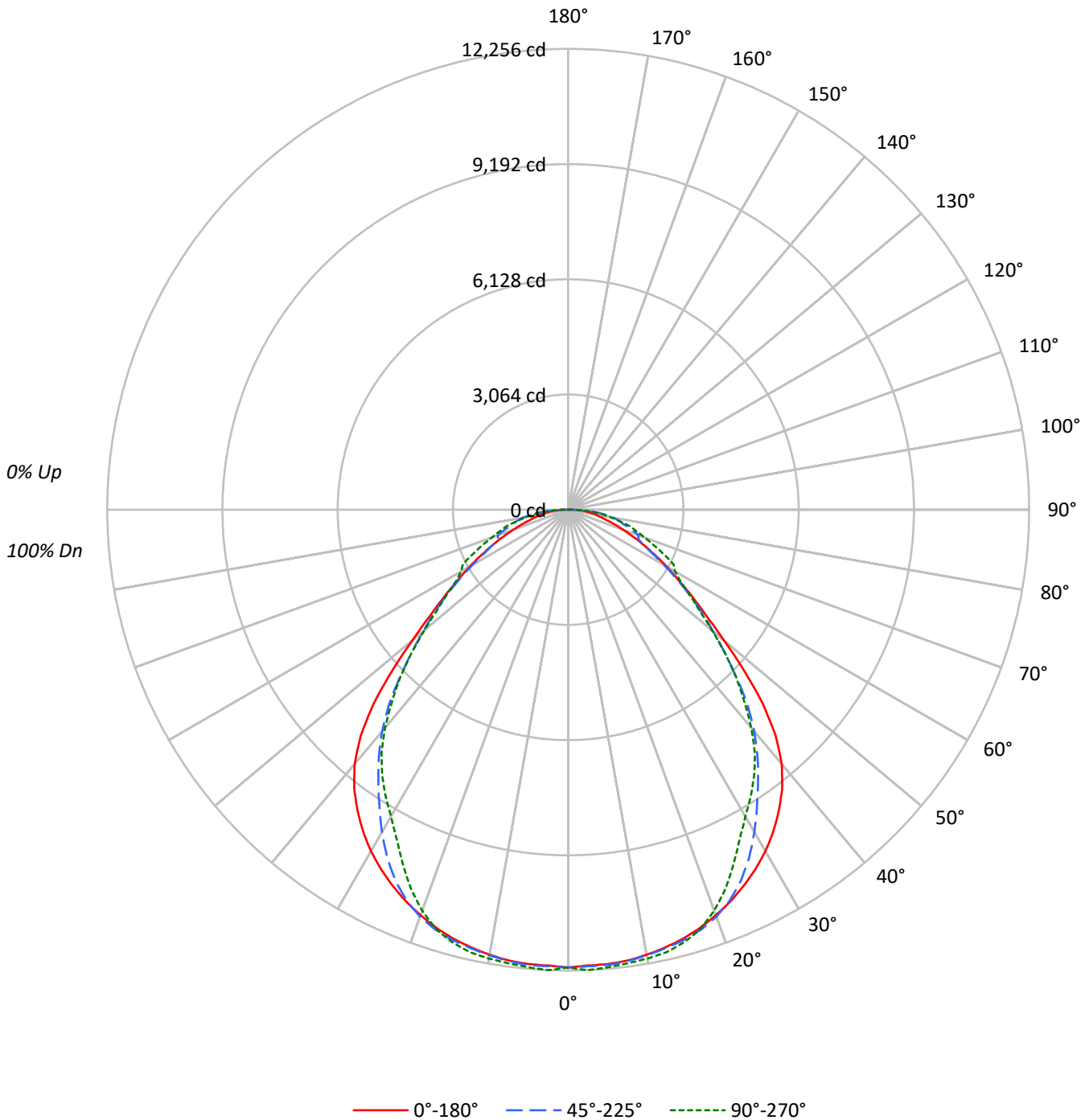
Lumens per Lamp: N/A
Luminaire Lumens: 28181.0 lumens
Efficiency: N/A
Efficacy: 156.6 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	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°	16381	16381	16381
5°	16381	16416	16496
10°	16421	16442	16563
15°	16447	16508	16589
20°	16430	16491	16246
25°	16388	16143	15441
30°	16292	15381	14632
35°	16046	14457	14156
40°	15510	13517	13294
45°	13941	12070	12025
50°	11307	10513	10441
55°	9389	9214	9211
60°	8129	7891	8822
65°	7045	7001	8893
70°	6074	7853	8477
75°	5447	8049	8837
80°	5662	9475	8866
85°	6428	10919	10130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1159.2	4.1
10°-20°	3347.9	11.9
20°-30°	4972.4	17.6
30°-40°	5645.1	20.0
40°-50°	5046.4	17.9
50°-60°	3489.1	12.4
60°-70°	2302.3	8.2
70°-80°	1553.3	5.5
80°-90°	665.3	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
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0°-30°	9479.6	33.6
0°-40°	15124.6	53.7
0°-60°	23660.2	84.0
0°-90°	28181.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28181.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12175	12175	12175	12175	12175	
5°	12128	12203	12154	12204	12214	###
15°	11807	11864	11851	11917	11909	3333
25°	11039	11144	10874	10550	10401	5087
35°	9769	9564	8802	8673	8618	6092
45°	7326	6706	6343	6392	6320	5572
55°	4002	3654	3928	3873	3926	3635
65°	2213	1965	2199	2571	2793	2208
75°	1048	1318	1548	1654	1700	1144
85°	416	579	707	711	656	434
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12175.1	12175.1	12175.1	12175.1	12175.1
2.5°	12133.7	12209.5	12153.0	12205.4	12256.4
5°	12128.2	12202.6	12154.4	12204.0	12213.7
7.5°	12093.7	12162.7	12106.1	12154.4	12165.4
10°	12019.3	12100.6	12034.4	12108.9	12122.7
12.5°	11922.8	12005.5	11947.6	12049.6	12055.1
15°	11807.0	11863.5	11851.1	11917.3	11909.0
17.5°	11660.8	11725.6	11716.0	11732.5	11693.9
20°	11474.7	11547.8	11517.4	11441.6	11346.5
22.5°	11274.8	11363.0	11243.1	11051.4	10917.7
25°	11039.0	11143.8	10873.6	10549.6	10400.7
27.5°	10778.5	10872.2	10422.8	10025.7	9871.3
30°	10486.2	10526.2	9900.3	9522.5	9417.7
32.5°	10148.4	10090.5	9341.9	9092.4	9031.7
35°	9769.3	9563.9	8801.5	8673.2	8618.1
37.5°	9341.9	8965.5	8267.9	8208.6	8150.7
40°	8830.4	8274.8	7695.8	7657.2	7568.9
42.5°	8170.0	7523.4	7060.2	7014.7	6936.1
45°	7326.3	6705.9	6343.3	6391.5	6319.8
47.5°	6355.7	5885.6	5655.3	5787.7	5655.3
50°	5401.6	5085.9	5022.5	5142.5	4988.0
52.5°	4619.9	4335.9	4466.9	4487.6	4395.2
55°	4002.3	3653.5	3927.8	3872.7	3926.5
57.5°	3464.6	3074.4	3412.2	3348.8	3533.5
60°	3020.7	2582.3	2932.4	2918.7	3278.5
62.5°	2585.0	2234.8	2516.1	2718.7	3161.3
65°	2212.8	1964.6	2199.0	2571.2	2793.2
67.5°	1855.7	1761.9	2011.5	2218.3	2460.9
70°	1544.1	1592.4	1996.3	1957.7	2154.9
72.5°	1282.2	1446.2	1761.9	1768.8	1908.1
75°	1047.8	1318.0	1548.3	1654.4	1699.9
77.5°	871.3	1195.3	1398.0	1435.2	1391.1
80°	730.7	1053.3	1222.9	1206.3	1144.3
82.5°	590.1	798.3	963.7	978.9	905.8
85°	416.4	579.0	707.3	711.4	656.2
87.5°	223.3	357.1	428.8	441.2	408.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)