

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-L750-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-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

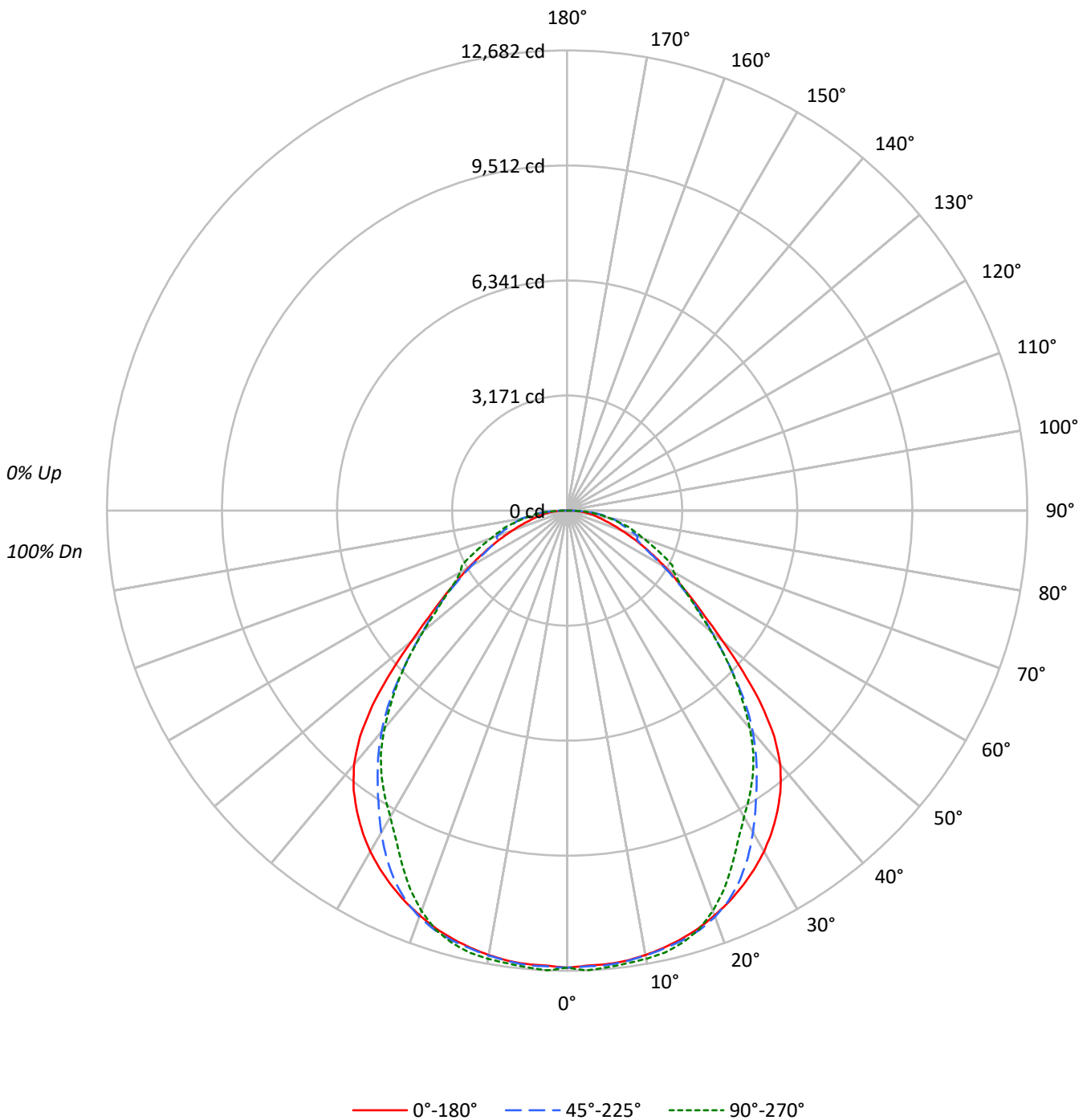
Lumens per Lamp: N/A
Luminaire Lumens: 29159.0 lumens
Efficiency: N/A
Efficacy: 162.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-30HE-W-AI-UNV-L750-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-AI-UNV-L750-ED2-U

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16950	16950	16950
5°	16949	16986	17069
10°	16991	17013	17137
15°	17017	17081	17164
20°	17000	17063	16810
25°	16957	16703	15977
30°	16857	15915	15140
35°	16603	14958	14647
40°	16048	13986	13756
45°	14424	12489	12443
50°	11699	10878	10803
55°	9714	9534	9530
60°	8411	8165	9129
65°	7289	7244	9201
70°	6285	8126	8771
75°	5636	8328	9144
80°	5859	9804	9174
85°	6651	11297	10482



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-AI-UNV-L750-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1199.5	4.1
10°-20°	3464.1	11.9
20°-30°	5145.0	17.6
30°-40°	5841.0	20.0
40°-50°	5221.6	17.9
50°-60°	3610.2	12.4
60°-70°	2382.2	8.2
70°-80°	1607.2	5.5
80°-90°	688.3	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
0°-30°	9808.5	33.6
0°-40°	15649.5	53.7
0°-60°	24481.3	84.0
0°-90°	29159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29159.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12598	12598	12598	12598	12598	
5°	12549	12626	12576	12628	12638	###
15°	12217	12275	12262	12331	12322	3448
25°	11422	11531	11251	10916	10762	5263
35°	10108	9896	9107	8974	8917	6303
45°	7580	6939	6563	6613	6539	5765
55°	4141	3780	4064	4007	4063	3761
65°	2290	2033	2275	2660	2890	2285
75°	1084	1364	1602	1712	1759	1184
85°	431	599	732	736	679	449
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-AI-UNV-L750-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12597.6	12597.6	12597.6	12597.6	12597.6
2.5°	12554.8	12633.3	12574.8	12629.0	12681.8
5°	12549.1	12626.1	12576.2	12627.5	12637.5
7.5°	12513.4	12584.8	12526.3	12576.2	12587.6
10°	12436.4	12520.6	12452.1	12529.1	12543.4
12.5°	12336.5	12422.1	12362.2	12467.8	12473.5
15°	12216.7	12275.2	12262.4	12330.8	12322.3
17.5°	12065.5	12132.5	12122.6	12139.7	12099.7
20°	11872.9	11948.5	11917.1	11838.7	11740.3
22.5°	11666.1	11757.4	11633.3	11435.0	11296.6
25°	11422.1	11530.6	11251.0	10915.7	10761.7
27.5°	11152.5	11249.5	10784.5	10373.6	10213.9
30°	10850.1	10891.5	10243.8	9853.0	9744.6
32.5°	10500.6	10440.7	9666.1	9407.9	9345.1
35°	10108.3	9895.8	9106.9	8974.2	8917.2
37.5°	9666.1	9276.7	8554.8	8493.5	8433.6
40°	9136.9	8562.0	7962.8	7922.9	7831.6
42.5°	8453.6	7784.5	7305.2	7258.1	7176.8
45°	7580.5	6938.6	6563.4	6613.3	6539.2
47.5°	6576.3	6089.8	5851.6	5988.5	5851.6
50°	5589.1	5262.4	5196.8	5320.9	5161.1
52.5°	4780.3	4486.4	4621.9	4643.3	4547.7
55°	4141.2	3780.3	4064.2	4007.1	4062.7
57.5°	3584.8	3181.1	3530.6	3465.0	3656.2
60°	3125.5	2671.9	3034.2	3019.9	3392.3
62.5°	2674.7	2312.4	2603.4	2813.1	3271.0
65°	2289.6	2032.8	2275.3	2660.5	2890.1
67.5°	1920.1	1823.1	2081.3	2295.3	2546.3
70°	1597.7	1647.6	2065.6	2025.7	2229.6
72.5°	1326.7	1496.4	1823.1	1830.2	1974.3
75°	1084.2	1363.8	1602.0	1711.8	1758.9
77.5°	901.6	1236.8	1446.5	1485.0	1439.4
80°	756.1	1089.9	1265.3	1248.2	1184.0
82.5°	610.6	826.0	997.1	1012.8	937.2
85°	430.8	599.1	731.8	736.1	679.0
87.5°	231.1	369.5	443.6	456.5	422.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)