

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-L740-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-L740-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

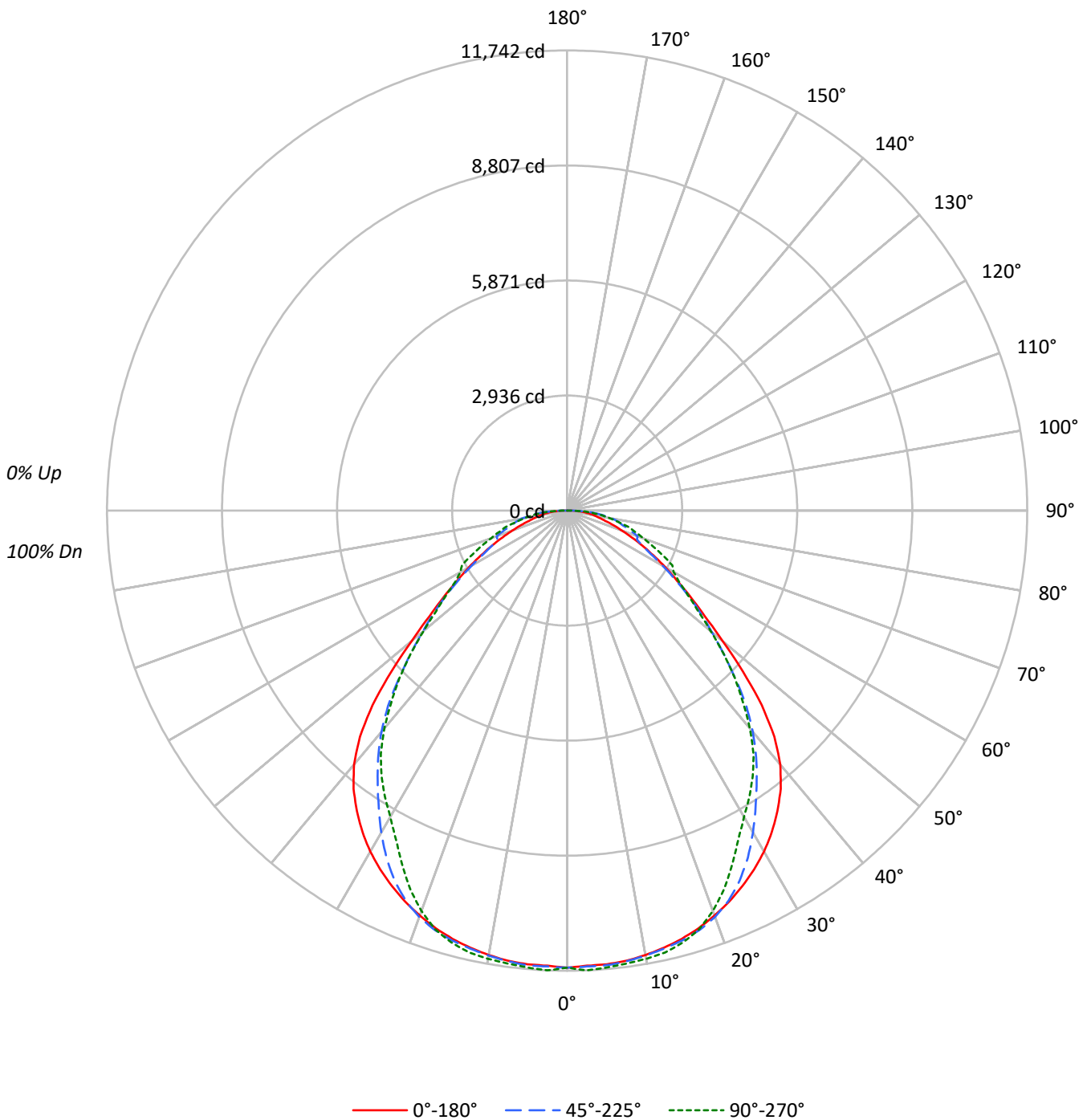
Lumens per Lamp: N/A
Luminaire Lumens: 26999.0 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.16 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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-L740-ED2-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-AI-UNV-L740-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°	15694	15694	15694
5°	15694	15728	15804
10°	15732	15752	15868
15°	15757	15816	15893
20°	15741	15799	15565
25°	15701	15466	14793
30°	15608	14736	14018
35°	15373	13850	13562
40°	14859	12950	12737
45°	13356	11564	11521
50°	10833	10072	10003
55°	8995	8827	8824
60°	7788	7560	8452
65°	6749	6707	8520
70°	5819	7524	8122
75°	5218	7711	8466
80°	5424	9078	8495
85°	6158	10461	9706



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-AI-UNV-L740-ED2-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.6	4.1
10°-20°	3207.5	11.9
20°-30°	4763.8	17.6
30°-40°	5408.3	20.0
40°-50°	4834.8	17.9
50°-60°	3342.8	12.4
60°-70°	2205.8	8.2
70°-80°	1488.1	5.5
80°-90°	637.4	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°	9081.9	33.6
0°-40°	14490.2	53.7
0°-60°	22667.8	84.0
0°-90°	26999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11664	11664	11664	11664	11664	
5°	11620	11691	11645	11692	11701	###
15°	11312	11366	11354	11417	11410	3193
25°	10576	10676	10418	10107	9964	4873
35°	9360	9163	8432	8310	8257	5836
45°	7019	6425	6077	6123	6055	5338
55°	3834	3500	3763	3710	3762	3483
65°	2120	1882	2107	2463	2676	2116
75°	1004	1263	1483	1585	1629	1096
85°	399	555	678	682	629	416
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30HE-W-AI-UNV-L740-ED2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11664.4	11664.4	11664.4	11664.4	11664.4
2.5°	11624.8	11697.4	11643.3	11693.5	11742.3
5°	11619.5	11690.8	11644.6	11692.1	11701.4
7.5°	11586.5	11652.5	11598.4	11644.6	11655.2
10°	11515.1	11593.1	11529.7	11601.0	11614.2
12.5°	11422.7	11501.9	11446.5	11544.2	11549.5
15°	11311.7	11365.9	11354.0	11417.4	11409.5
17.5°	11171.7	11233.8	11224.6	11240.4	11203.4
20°	10993.4	11063.4	11034.4	10961.7	10870.6
22.5°	10801.9	10886.4	10771.5	10587.9	10459.8
25°	10576.0	10676.4	10417.5	10107.1	9964.5
27.5°	10326.4	10416.2	9985.6	9605.2	9457.3
30°	10046.4	10084.7	9485.0	9123.1	9022.7
32.5°	9722.8	9667.3	8950.1	8711.0	8652.9
35°	9359.5	9162.7	8432.3	8309.5	8256.6
37.5°	8950.1	8589.5	7921.1	7864.3	7808.8
40°	8460.0	7927.7	7373.0	7336.0	7251.5
42.5°	7827.3	7207.9	6764.1	6720.5	6645.2
45°	7019.0	6424.6	6077.2	6123.4	6054.8
47.5°	6089.1	5638.7	5418.1	5544.9	5418.1
50°	5175.1	4872.6	4811.8	4926.8	4778.8
52.5°	4426.2	4154.1	4279.5	4299.4	4210.9
55°	3834.4	3500.2	3763.1	3710.3	3761.8
57.5°	3319.3	2945.5	3269.1	3208.3	3385.3
60°	2894.0	2473.9	2809.4	2796.2	3141.0
62.5°	2476.6	2141.1	2410.5	2604.7	3028.7
65°	2120.0	1882.2	2106.8	2463.4	2676.0
67.5°	1777.9	1688.0	1927.1	2125.2	2357.7
70°	1479.3	1525.6	1912.6	1875.6	2064.5
72.5°	1228.4	1385.6	1688.0	1694.6	1828.1
75°	1003.8	1262.7	1483.3	1585.0	1628.6
77.5°	834.8	1145.2	1339.3	1375.0	1332.7
80°	700.0	1009.1	1171.6	1155.7	1096.3
82.5°	565.3	764.8	923.3	937.8	867.8
85°	398.9	554.8	677.6	681.6	628.7
87.5°	214.0	342.1	410.8	422.7	391.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)