

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-WG-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 (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-W-WG-UNV-L750-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

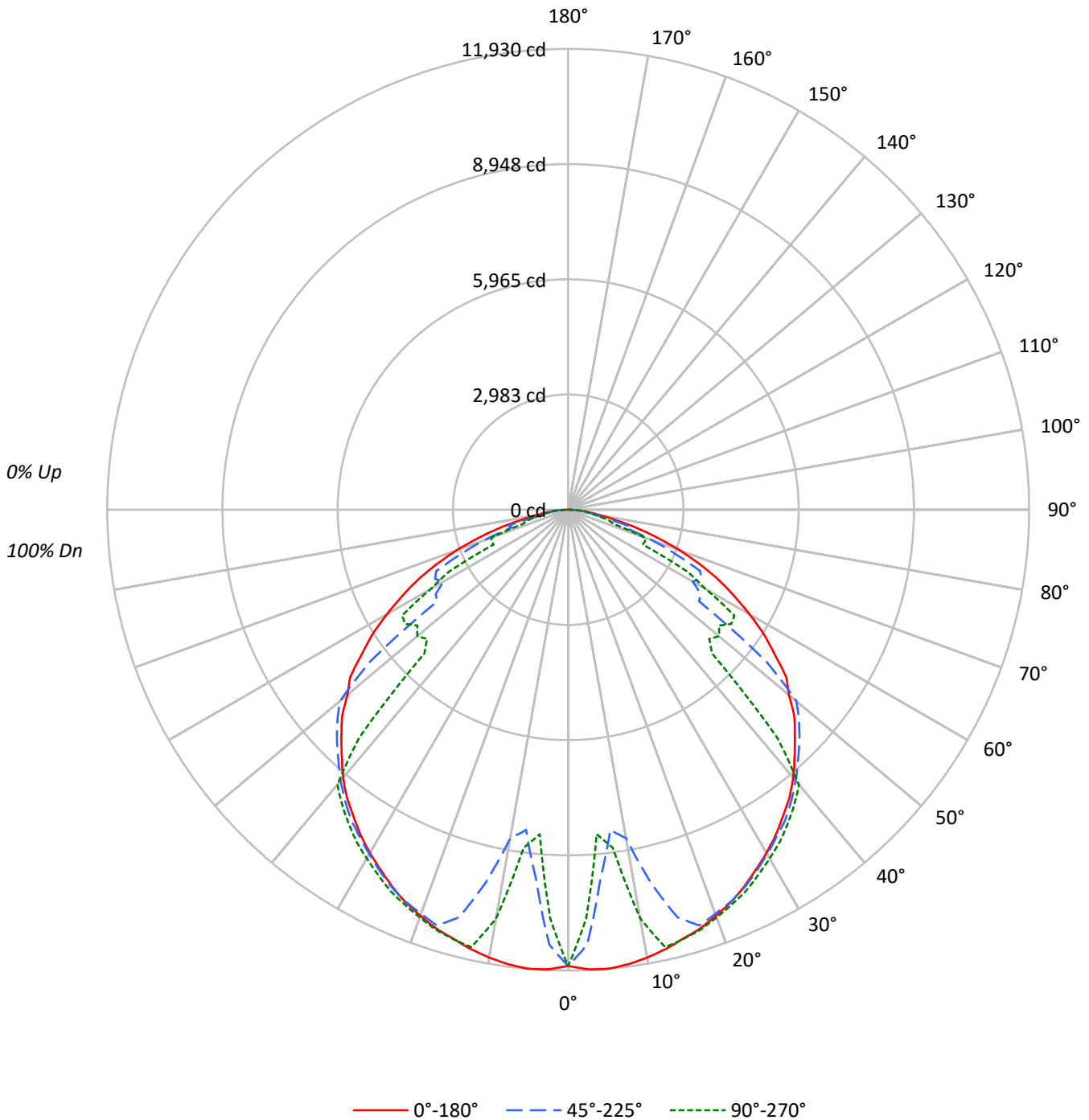
Lumens per Lamp: N/A
Luminaire Lumens: 31291.0 lumens
Efficiency: N/A
Efficacy: 173.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15892	15892	15892
5°	16113	12945	11384
10°	16085	11805	14682
15°	16014	15215	16028
20°	16014	15941	16083
25°	15985	16021	16168
30°	15939	15992	16198
35°	15914	16090	16278
40°	15916	16089	16320
45°	15791	16100	10005
50°	15612	16133	10663
55°	15283	9701	12086
60°	14579	9999	11067
65°	13660	12005	6772
70°	12062	9095	8301
75°	9611	8267	5756
80°	6621	5975	4947
85°	6345	5516	5233



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	944.5	3.0
10°-20°	2959.0	9.5
20°-30°	4868.1	15.6
30°-40°	6121.0	19.6
40°-50°	6003.2	19.2
50°-60°	4973.9	15.9
60°-70°	3508.2	11.2
70°-80°	1530.6	4.9
80°-90°	382.4	1.2
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°	8771.6	28.0
0°-40°	14892.6	47.6
0°-60°	25869.8	82.7
0°-90°	31291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11811	11811	11811	11811	11811	
5°	11930	11104	9584	8690	8429	###
15°	11496	7984	10923	11542	11506	3251
25°	10768	9852	10792	10864	10890	4963
35°	9689	9683	9796	9861	9910	6070
45°	8299	8324	8461	7494	5258	6406
55°	6515	6728	4135	4702	5152	5829
65°	4291	4544	3771	2901	2127	4219
75°	1849	1812	1590	1040	1107	1983
85°	411	366	357	342	339	426
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11811.3	11811.3	11811.3	11811.3	11811.3
2.5°	11908.8	11661.6	11269.0	10774.7	10599.6
5°	11930.0	11103.8	9584.1	8690.1	8428.8
7.5°	11869.2	10091.1	8355.4	8543.2	8820.0
10°	11773.2	9201.3	8640.6	10166.0	10746.4
12.5°	11650.3	8410.4	9899.0	11483.7	11599.5
15°	11496.4	7983.9	10923.0	11541.6	11506.3
17.5°	11366.5	8233.9	11290.2	11425.8	11400.3
20°	11184.3	8732.5	11133.4	11242.2	11232.3
22.5°	11000.7	9322.8	10985.1	11062.8	11062.8
25°	10767.6	9852.4	10791.6	10863.7	10890.5
27.5°	10512.0	10157.5	10550.1	10609.4	10657.5
30°	10259.2	10201.3	10293.1	10369.3	10425.8
32.5°	9992.3	9969.7	10041.7	10122.2	10194.2
35°	9688.6	9683.0	9795.9	9860.9	9910.3
37.5°	9403.3	9383.5	9488.0	9578.4	9616.6
40°	9061.5	9061.5	9160.4	9252.2	9291.7
42.5°	8671.7	8726.8	8803.1	8897.7	8013.6
45°	8298.9	8324.3	8461.3	7493.8	5258.1
47.5°	7940.1	7972.6	8102.6	4817.5	4948.8
50°	7458.5	7605.4	7707.1	4803.3	5094.3
52.5°	7106.9	7170.4	6469.9	4755.3	4919.2
55°	6515.1	6728.4	4135.3	4701.7	5152.2
57.5°	6009.5	6164.8	4066.1	4817.5	5097.1
60°	5417.7	5655.0	3715.8	4648.0	4112.7
62.5°	4849.9	5075.9	3879.7	3657.9	3482.8
65°	4290.7	4543.5	3770.9	2900.9	2127.0
67.5°	3677.7	3441.9	3008.3	2043.6	2151.0
70°	3066.2	2403.8	2312.0	2285.2	2110.0
72.5°	2437.7	1754.1	1535.2	1714.6	1227.3
75°	1848.7	1812.0	1590.3	1039.5	1107.3
77.5°	1282.4	1307.8	851.6	1014.1	841.8
80°	854.5	740.1	771.1	646.8	638.4
82.5°	591.8	604.5	507.0	491.5	498.6
85°	411.0	365.8	357.3	341.8	339.0
87.5°	137.0	159.6	148.3	134.2	142.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)