

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-LD5-30SE-N-CLWG-UNV-L750-ED3-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 (P33344)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-CLWG-UNV-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
NARROW DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

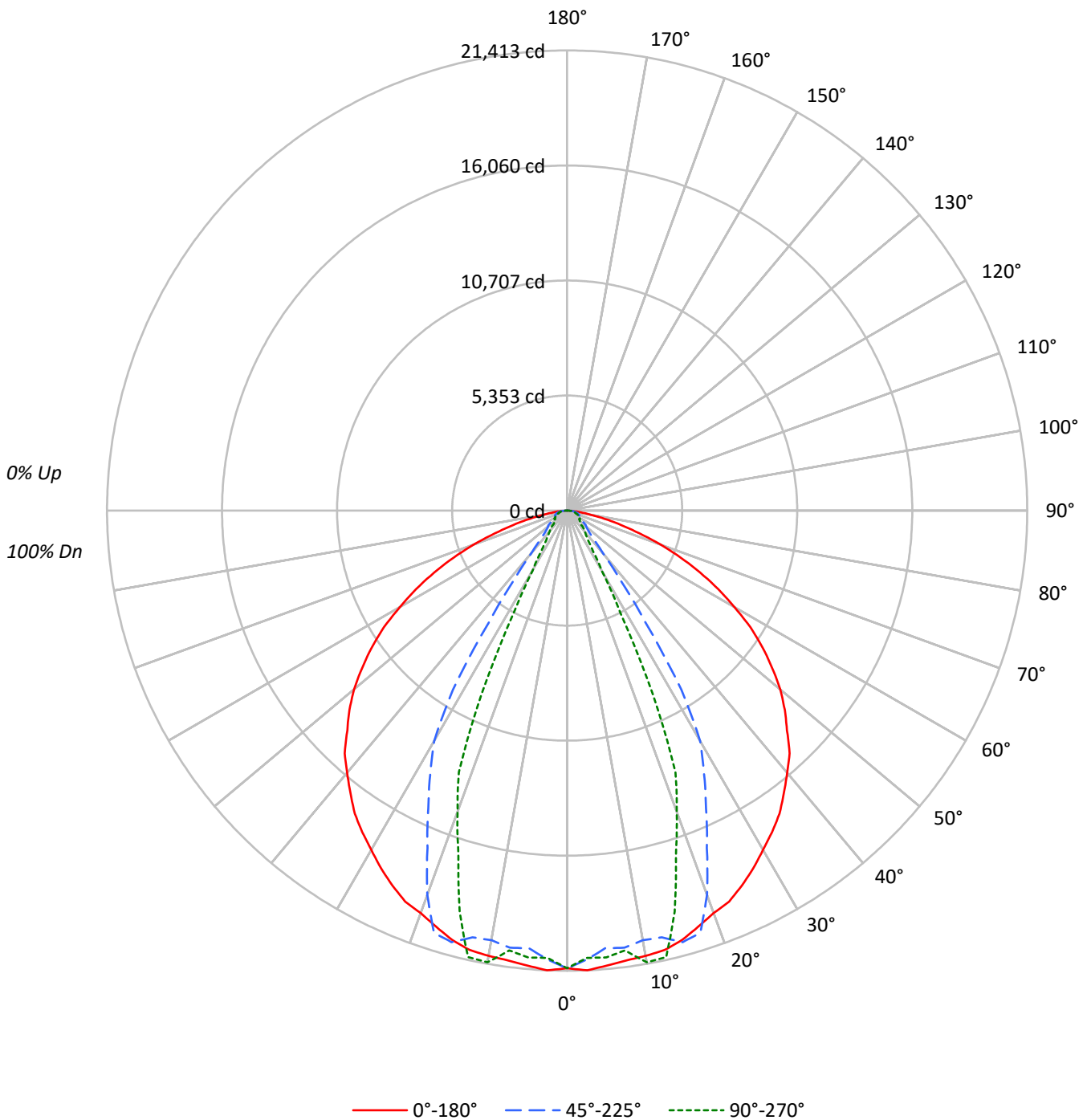
Lumens per Lamp: N/A
Luminaire Lumens: 28630.0 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 193
Input Voltage (V): NR
Input Current (A_{in}): 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	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89					89			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71					71			
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41					41			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38					38			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28654	28654	28654
5°	28702	27608	28190
10°	28743	27741	29165
15°	28807	28957	26914
20°	28535	27236	21362
25°	28576	22706	13954
30°	28319	19235	5013
35°	28290	10420	2820
40°	27969	4543	2208
45°	27537	2808	1732
50°	27108	2445	1634
55°	26042	2121	1599
60°	24162	1900	1719
65°	21719	2148	1878
70°	18215	2309	1937
75°	13617	2634	2097
80°	8552	3058	2391
85°	5695	3833	3501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1973.9	6.9
10°-20°	5573.8	19.5
20°-30°	6825.3	23.8
30°-40°	5359.9	18.7
40°-50°	3974.7	13.9
50°-60°	2419.7	8.5
60°-70°	1449.5	5.1
70°-80°	795.3	2.8
80°-90°	257.9	0.9
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°	14373.0	50.2
0°-40°	19732.9	68.9
0°-60°	26127.4	91.3
0°-90°	28630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21296	21296	21296	21296	21296	
5°	21250	20672	20441	20666	20872	###
15°	20681	20114	20788	19949	19322	5823
25°	19248	19309	15294	11996	9400	8861
35°	17223	15667	6344	2123	1717	10747
45°	14472	10391	1476	1118	910	11191
55°	11102	2863	904	765	682	9879
65°	6822	844	675	634	590	6740
75°	2619	532	507	441	403	2836
85°	369	290	248	228	227	450
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21296.4	21296.4	21296.4	21296.4	21296.4
2.5°	21412.7	21124.2	20903.2	20779.7	20830.0
5°	21250.5	20672.1	20441.0	20666.3	20871.6
7.5°	21109.8	20250.1	20511.3	20531.4	20639.1
10°	21038.1	20209.9	20304.7	20751.0	21346.7
12.5°	20943.4	20303.2	20336.2	20944.8	21280.6
15°	20680.7	20113.8	20788.3	19948.7	19321.5
17.5°	20297.5	19671.7	20598.9	17672.4	16819.8
20°	19928.6	19190.9	19021.5	15742.0	14919.6
22.5°	19690.4	19117.7	16992.1	14026.8	13177.1
25°	19248.3	19308.6	15294.2	11995.9	9399.5
27.5°	18761.8	18859.4	13792.9	8000.2	5385.1
30°	18227.8	18339.8	12380.6	4727.8	3226.5
32.5°	17744.2	17112.6	9887.5	2949.5	2243.3
35°	17223.2	15667.3	6343.9	2122.8	1716.6
37.5°	16567.2	14148.8	4015.9	1679.3	1441.0
40°	15924.2	12785.3	2586.3	1433.8	1257.3
42.5°	15322.9	11661.5	1881.6	1253.0	1135.3
45°	14471.8	10391.3	1475.5	1118.1	910.0
47.5°	13735.5	8901.5	1290.3	945.8	785.1
50°	12950.4	6806.0	1168.3	841.1	780.8
52.5°	12018.9	4452.2	1079.3	805.2	729.1
55°	11101.8	2863.3	904.2	765.0	681.7
57.5°	10111.4	1815.6	798.0	742.0	711.9
60°	8979.0	1224.3	706.1	703.3	638.7
62.5°	7931.3	1006.1	681.7	674.6	604.2
65°	6821.8	843.9	674.6	634.4	589.9
67.5°	5713.8	723.4	610.0	579.8	541.1
70°	4630.2	661.7	587.0	574.1	492.3
72.5°	3516.4	545.4	521.0	486.6	409.0
75°	2619.4	532.5	506.6	440.6	403.3
77.5°	1772.5	490.9	460.7	394.7	364.6
80°	1103.7	450.7	394.7	345.9	308.6
82.5°	655.9	376.0	324.4	285.6	261.2
85°	368.9	289.9	248.3	228.2	226.8
87.5°	78.9	104.8	83.2	78.9	56.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)