

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-CL-UNV-L835-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 (P23762)
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-CL-UNV-L835-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

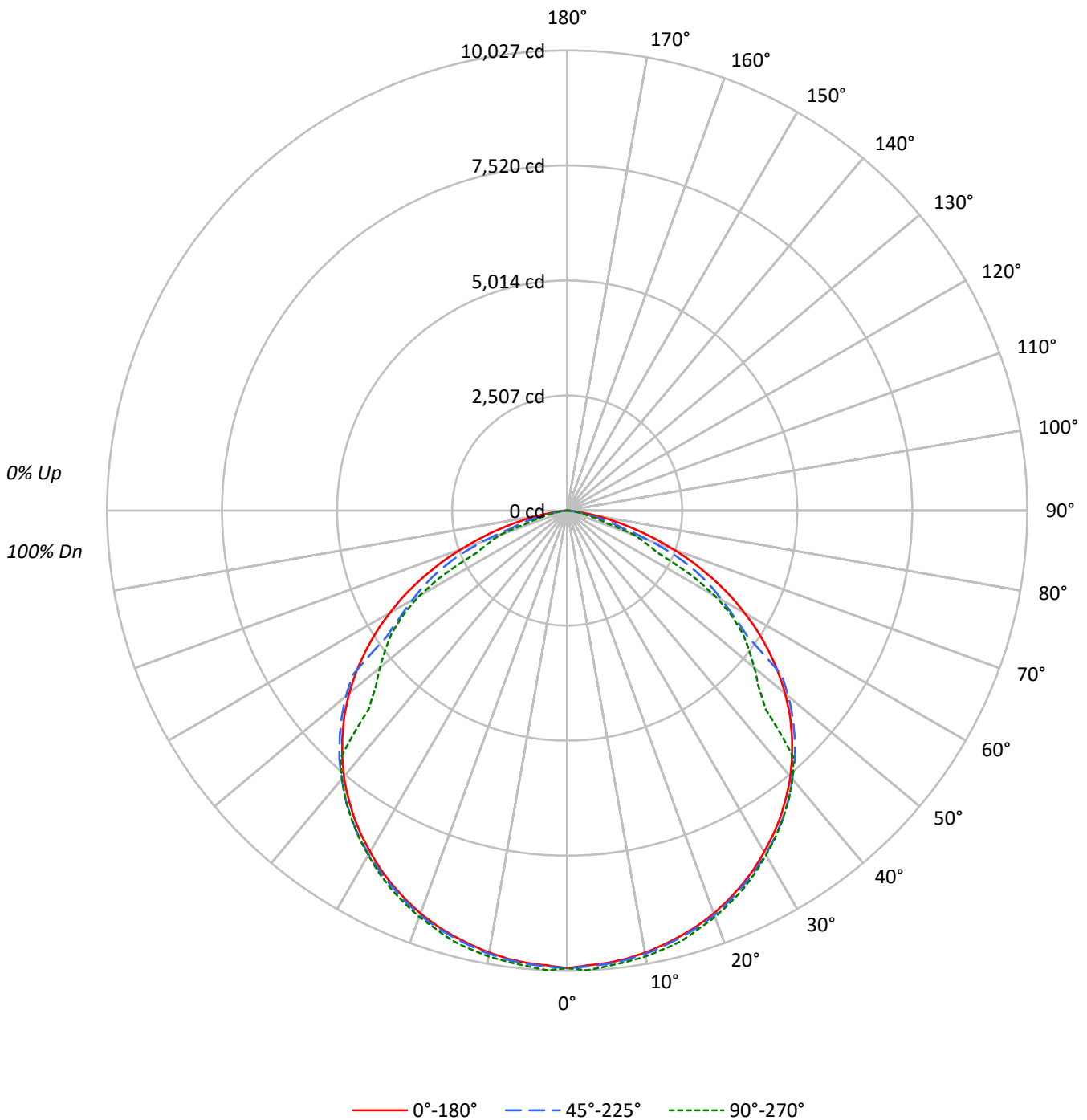
Lumens per Lamp: N/A
Luminaire Lumens: 26950.0 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38		49	43	38		48	42	38	36
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	31		41	35	30	29
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13413	13413	13413
5°	13364	13394	13459
10°	13363	13401	13479
15°	13362	13402	13511
20°	13379	13429	13492
25°	13363	13414	13495
30°	13338	13436	13466
35°	13332	13453	13463
40°	13290	13407	13407
45°	13176	13335	11620
50°	12973	13168	11148
55°	12605	11272	10951
60°	12013	10478	10005
65°	11110	9727	6929
70°	9674	7568	6174
75°	7641	5080	3319
80°	4919	2427	2069
85°	2024	1480	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.6	3.5
10°-20°	2725.6	10.1
20°-30°	4178.8	15.5
30°-40°	5121.7	19.0
40°-50°	5265.5	19.5
50°-60°	4493.9	16.7
60°-70°	2971.0	11.0
70°-80°	1100.7	4.1
80°-90°	147.2	0.5
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°	7850.0	29.1
0°-40°	12971.7	48.1
0°-60°	22731.1	84.3
0°-90°	26950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9969	9969	9969	9969	9969	
5°	9895	9964	9916	9955	9965	941
15°	9592	9651	9622	9694	9699	2710
25°	9001	9049	9035	9117	9090	4150
35°	8116	8172	8190	8242	8197	5077
45°	6925	6994	7008	6997	6106	5336
55°	5373	5472	4805	4666	4668	4795
65°	3490	3519	3055	2512	2176	3441
75°	1470	1288	977	657	638	1577
85°	131	94	96	104	106	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9968.7	9968.7	9968.7	9968.7	9968.7
2.5°	9920.2	9982.1	9945.6	9991.8	10027.0
5°	9894.7	9963.8	9916.5	9955.4	9965.1
7.5°	9851.0	9915.3	9871.6	9922.6	9915.3
10°	9780.6	9838.8	9808.5	9861.9	9865.5
12.5°	9690.7	9749.0	9721.1	9786.6	9785.4
15°	9592.4	9650.7	9621.6	9694.4	9699.2
17.5°	9477.1	9530.5	9508.7	9575.4	9548.7
20°	9343.6	9389.7	9378.8	9441.9	9422.5
22.5°	9179.8	9227.1	9216.2	9289.0	9259.9
25°	9001.3	9048.7	9035.3	9116.6	9089.9
27.5°	8808.3	8853.2	8852.0	8928.5	8887.2
30°	8585.0	8644.5	8648.1	8716.1	8667.5
32.5°	8364.1	8419.9	8435.7	8485.5	8444.2
35°	8116.5	8172.3	8190.5	8241.5	8196.6
37.5°	7849.5	7896.8	7929.6	7967.2	7932.0
40°	7566.7	7609.1	7633.4	7679.5	7633.4
42.5°	7251.1	7311.8	7345.7	7378.5	7303.3
45°	6924.6	6993.8	7008.3	6997.4	6106.5
47.5°	6578.6	6653.9	6662.4	5810.3	5646.5
50°	6197.5	6292.2	6291.0	5369.7	5326.0
52.5°	5800.6	5891.6	5888.0	5025.0	4995.9
55°	5373.4	5471.7	4805.3	4665.7	4668.2
57.5°	4937.6	5008.0	4311.3	4317.4	4237.3
60°	4464.3	4531.0	3893.8	3856.2	3717.8
62.5°	3989.7	4017.6	3489.6	3306.3	3042.9
65°	3489.6	3518.7	3055.1	2512.5	2176.3
67.5°	2976.2	3005.3	2535.6	1869.2	1843.7
70°	2459.1	2221.2	1923.8	1557.3	1569.4
72.5°	1949.3	1706.6	1257.5	1206.5	871.5
75°	1469.9	1287.8	977.1	656.7	638.4
77.5°	1023.2	887.3	523.1	447.9	418.8
80°	634.8	445.5	313.2	278.0	267.0
82.5°	321.6	256.1	169.9	169.9	169.9
85°	131.1	93.5	95.9	104.4	105.6
87.5°	27.9	37.6	46.1	47.3	46.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)