

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-CLWG-UNV-L735-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 (P33385)
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-CLWG-UNV-L735-ED2-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27570.0 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

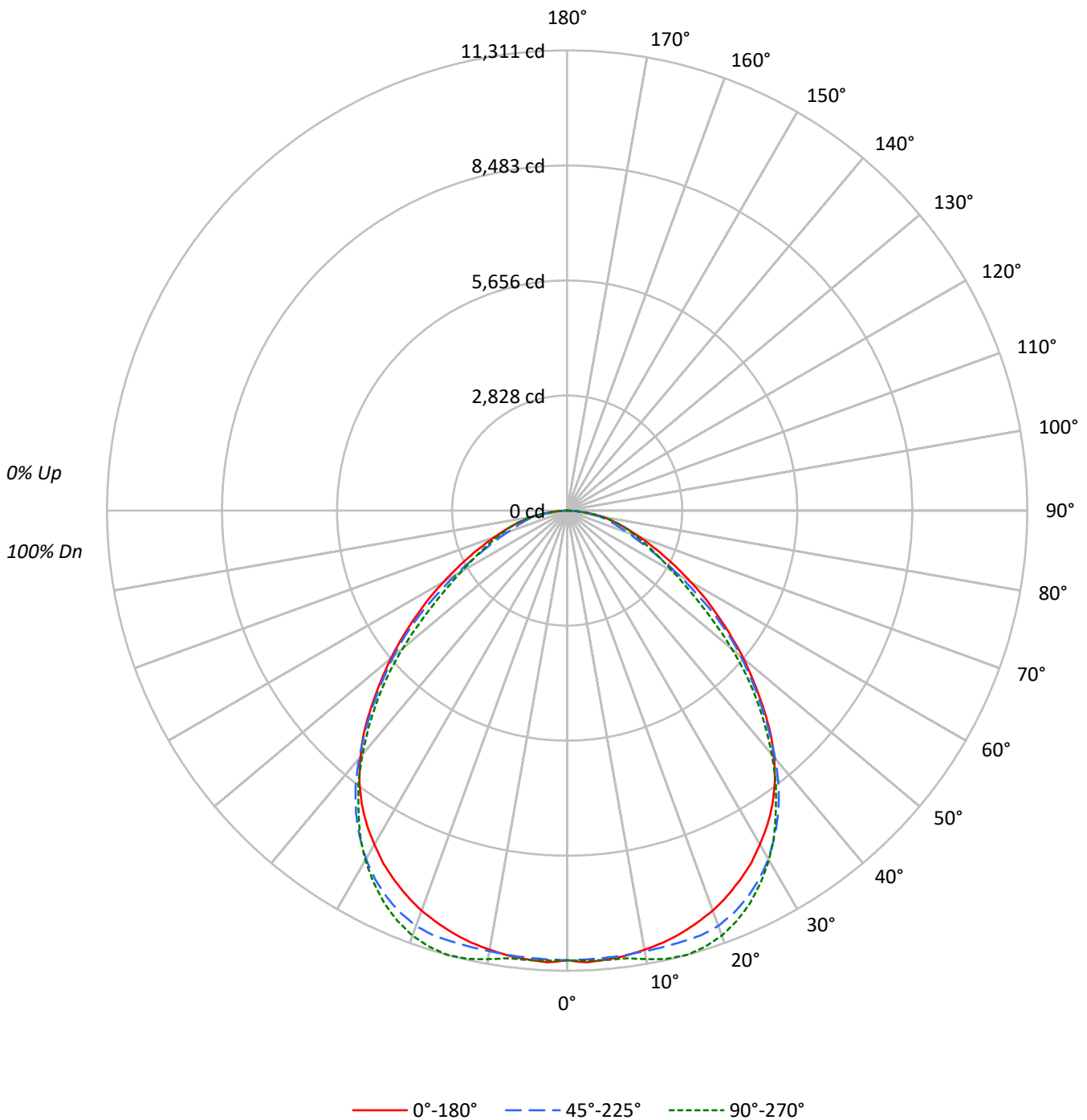
Input Watts (W): 180
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14874	14874	14874
5°	14962	14900	14973
10°	14975	15026	15294
15°	14994	15276	15756
20°	14983	15555	15918
25°	14892	15569	15798
30°	14721	15363	15412
35°	14458	14865	14687
40°	13888	13973	13753
45°	12940	12804	12544
50°	11848	11656	11060
55°	10642	10247	9351
60°	9438	8479	8072
65°	8316	7045	7326
70°	7437	6113	6977
75°	6967	5944	7056
80°	6783	6010	6716
85°	5414	4753	4931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.1	3.8
10°-20°	3101.9	11.3
20°-30°	4771.9	17.3
30°-40°	5569.1	20.2
40°-50°	5175.2	18.8
50°-60°	3836.0	13.9
60°-70°	2345.0	8.5
70°-80°	1335.7	4.8
80°-90°	382.0	1.4
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°	8926.9	32.4
0°-40°	14496.0	52.6
0°-60°	23507.2	85.3
0°-90°	27570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11055	11055	11055	11055	11055	
5°	11078	11026	11032	11023	11086	###
15°	10764	10758	10966	11183	11311	3038
25°	10031	10108	10487	10576	10641	4621
35°	8802	8871	9050	8976	8942	5484
45°	6800	6840	6729	6624	6592	5240
55°	4536	4422	4368	4058	3986	4071
65°	2612	2372	2213	2272	2301	2614
75°	1340	1258	1143	1303	1357	1434
85°	351	342	308	319	319	404
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11054.8	11054.8	11054.8	11054.8	<i>11054.8</i>
2.5°	11114.7	11051.9	11040.5	11014.9	<i>11071.9</i>
5°	11077.6	11026.3	11032.0	11023.4	<i>11086.1</i>
7.5°	11034.8	10997.7	11020.6	11017.7	<i>11100.4</i>
10°	10960.7	10940.7	10997.7	11060.5	<i>11194.5</i>
12.5°	10878.0	10858.0	10983.5	11143.2	<i>11288.6</i>
15°	<i>10763.9</i>	<i>10758.2</i>	<i>10966.4</i>	<i>11183.1</i>	<i>11311.4</i>
17.5°	10621.4	10629.9	10946.4	11131.8	<i>11245.8</i>
20°	10464.5	10478.8	10863.7	11014.9	<i>11117.5</i>
22.5°	10262.1	10310.6	10704.1	10829.5	<i>10909.4</i>
25°	10031.1	10108.1	10487.4	10575.7	<i>10641.3</i>
27.5°	9783.1	9860.0	10219.3	10264.9	<i>10302.0</i>
30°	9475.1	9583.5	9888.6	9894.3	<i>9919.9</i>
32.5°	9161.5	9258.4	9492.2	9466.6	<i>9472.3</i>
35°	8802.2	8870.6	9050.3	8976.1	<i>8941.9</i>
37.5°	8388.7	8425.8	8539.9	8428.7	<i>8423.0</i>
40°	7906.9	7955.3	7955.3	7801.4	<i>7829.9</i>
42.5°	7393.6	7410.7	7339.4	7194.0	<i>7216.8</i>
45°	6800.5	6840.4	6729.2	6623.7	<i>6592.4</i>
47.5°	6213.1	6253.1	6136.2	6013.5	<i>5959.4</i>
50°	5660.0	5640.0	5568.7	5360.6	<i>5283.6</i>
52.5°	5086.9	5024.1	4995.6	4690.5	<i>4602.1</i>
55°	4536.5	4422.5	4368.3	4057.5	<i>3986.2</i>
57.5°	4026.1	3820.8	3718.2	3475.8	<i>3447.3</i>
60°	3507.2	3276.2	3150.8	2993.9	<i>2999.6</i>
62.5°	3036.7	2794.3	2643.2	2597.6	<i>2617.6</i>
65°	2611.9	2372.3	2212.7	2272.5	<i>2301.1</i>
67.5°	2226.9	2030.2	1850.5	1990.3	<i>2018.8</i>
70°	1890.5	1733.6	1554.0	1759.3	<i>1773.6</i>
72.5°	1611.0	1482.7	1331.6	1525.5	<i>1556.8</i>
75°	1340.1	1257.5	1143.4	1303.1	<i>1357.3</i>
77.5°	1103.5	1037.9	972.3	1069.3	<i>1129.1</i>
80°	875.4	809.8	775.6	826.9	<i>866.8</i>
82.5°	618.7	576.0	541.8	578.8	<i>598.8</i>
85°	350.7	342.2	307.9	319.4	<i>319.4</i>
87.5°	79.8	91.2	102.6	94.1	<i>79.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)