

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-A-UNV-L840-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 (P23761)
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-A-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

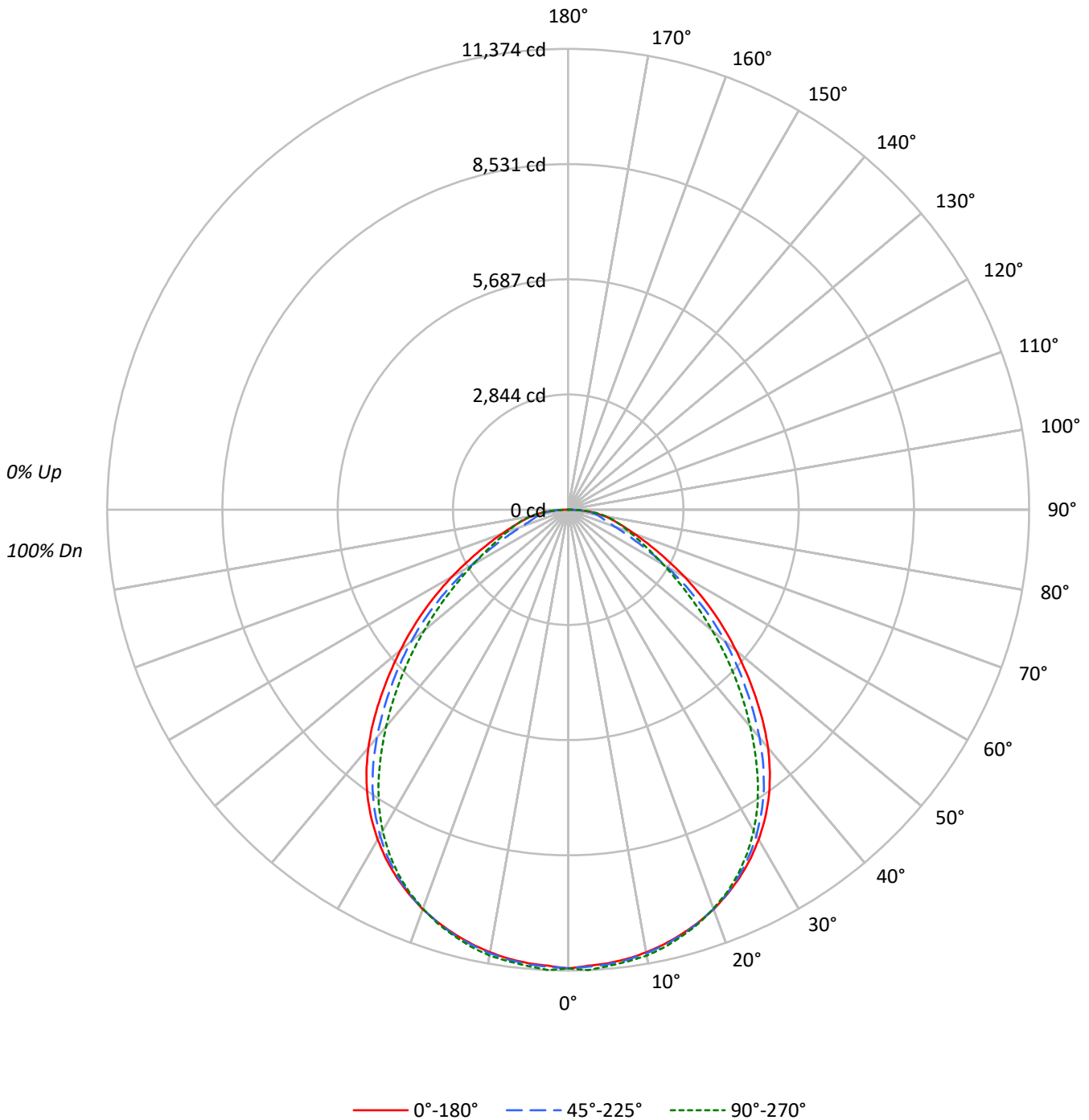
Lumens per Lamp: N/A
Luminaire Lumens: 26002.0 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.2 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63					63			
4	85	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	52	46	72	60	52	46	58	51	46	56	50	45	55	49	45	43					43			
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	47	41	36	35					35			
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15230	15230	15230
5°	15176	15210	15272
10°	15154	15189	15266
15°	15104	15134	15170
20°	15025	15014	15003
25°	14862	14810	14727
30°	14605	14428	14218
35°	14181	13824	13398
40°	13475	12897	12278
45°	12449	11754	11042
50°	11316	10584	9713
55°	10175	9163	8397
60°	8904	7489	7286
65°	7677	5889	6576
70°	6845	4806	6338
75°	6556	4692	6623
80°	7092	5549	7379
85°	7961	6680	8040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1072.8	4.1
10°-20°	3070.2	11.8
20°-30°	4592.7	17.7
30°-40°	5239.9	20.2
40°-50°	4769.8	18.3
50°-60°	3502.4	13.5
60°-70°	2068.0	8.0
70°-80°	1185.1	4.6
80°-90°	501.1	1.9
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°	8735.7	33.6
0°-40°	13975.6	53.7
0°-60°	22247.8	85.6
0°-90°	26002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26002.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11319	11319	11319	11319	11319	
5°	11236	11306	11262	11306	11308	###
15°	10843	10903	10865	10903	10890	3060
25°	10011	10046	9976	9972	9920	4608
35°	8633	8591	8416	8272	8157	5379
45°	6542	6504	6177	5900	5803	5042
55°	4338	4137	3906	3623	3579	3879
65°	2411	2105	1850	1979	2065	2427
75°	1261	1081	902	1177	1274	1359
85°	516	476	433	511	521	539
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11319.1	11319.1	11319.1	11319.1	11319.1
2.5°	11266.8	11331.9	11291.0	11335.7	11374.0
5°	11236.1	11306.3	11261.7	11306.3	11307.6
7.5°	11180.0	11245.1	11201.7	11250.2	11245.1
10°	11091.9	11157.0	11117.4	11169.8	11173.6
12.5°	10979.5	11042.1	11001.2	11061.2	11051.0
15°	10843.0	10903.0	10864.7	10903.0	10890.2
17.5°	10682.1	10737.0	10687.2	10729.3	10707.6
20°	10493.2	10539.1	10485.5	10525.1	10477.9
22.5°	10267.2	10308.1	10251.9	10273.6	10225.1
25°	10010.7	10046.4	9976.2	9972.4	9920.0
27.5°	9724.7	9743.9	9654.5	9623.9	9563.9
30°	9400.5	9405.6	9286.9	9229.4	9151.5
32.5°	9036.6	9023.9	8872.0	8786.4	8690.7
35°	8633.3	8591.1	8416.2	8272.0	8157.1
37.5°	8177.5	8111.2	7901.8	7688.6	7578.8
40°	7672.0	7594.2	7342.7	7078.4	6990.4
42.5°	7121.8	7055.5	6759.3	6483.6	6396.8
45°	6542.3	6504.0	6177.2	5900.2	5803.2
47.5°	5962.7	5934.6	5615.5	5333.4	5216.0
50°	5406.2	5344.9	5056.4	4747.5	4640.2
52.5°	4866.2	4741.1	4487.0	4170.5	4091.3
55°	4337.7	4137.3	3906.2	3622.8	3579.4
57.5°	3814.3	3555.2	3330.5	3118.6	3117.3
60°	3308.8	3012.6	2782.9	2671.8	2707.5
62.5°	2835.2	2531.4	2282.5	2290.1	2355.2
65°	2411.4	2105.0	1849.7	1978.6	2065.4
67.5°	2047.6	1755.2	1496.1	1736.1	1819.1
70°	1739.9	1475.7	1221.7	1521.6	1611.0
72.5°	1480.8	1258.7	1030.2	1342.9	1433.6
75°	1261.2	1081.2	902.5	1177.0	1274.0
77.5°	1082.5	922.9	809.3	1018.7	1119.5
80°	915.3	774.9	716.1	865.5	952.3
82.5°	725.1	628.1	593.6	703.4	748.1
85°	515.7	476.2	432.7	510.6	520.8
87.5°	283.4	293.6	242.5	293.6	294.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)