

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-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 (P23760)
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-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

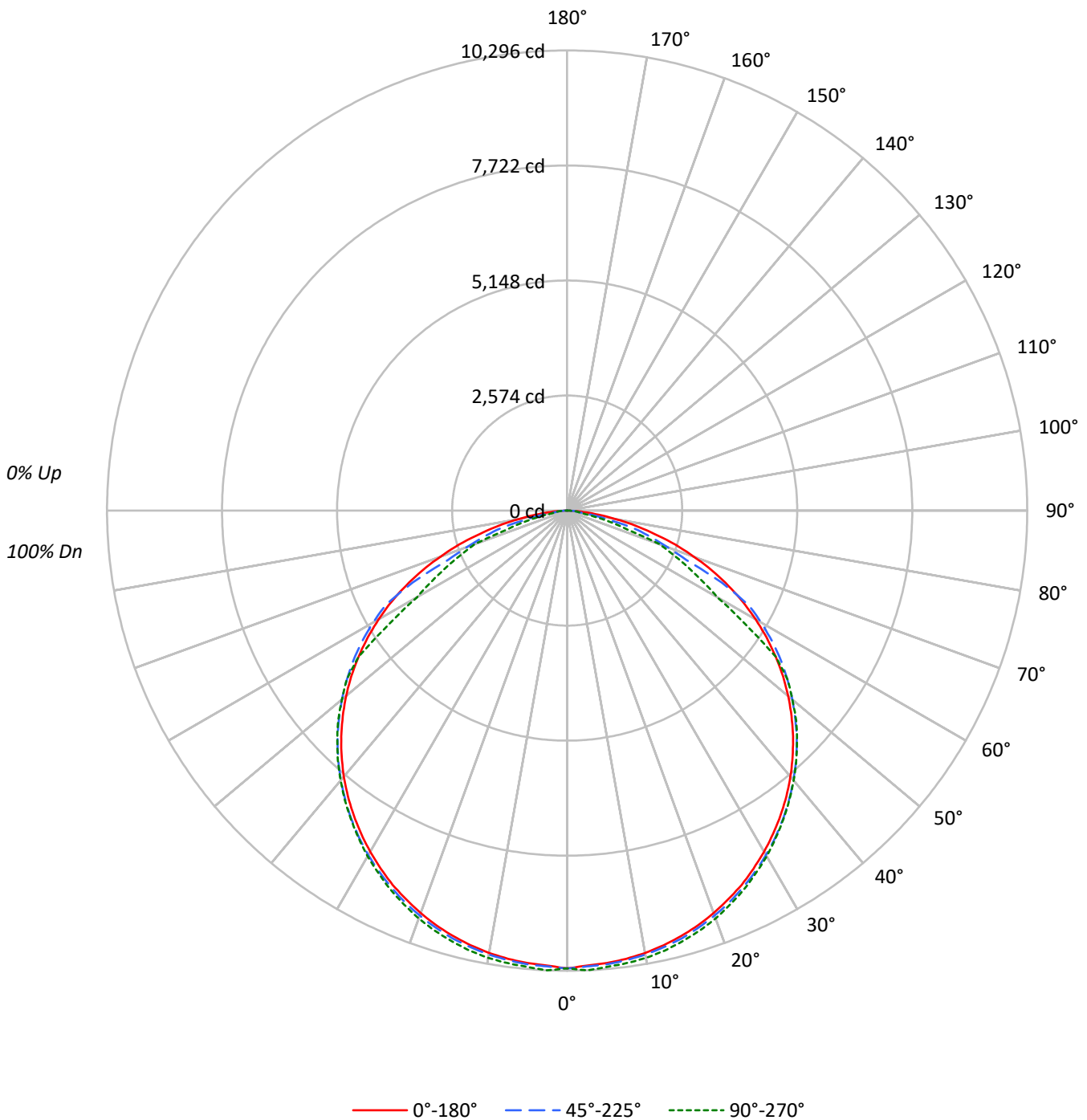
Lumens per Lamp: N/A
Luminaire Lumens: 29569.0 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.29 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13781	13781	13781
5°	13724	13762	13840
10°	13732	13781	13885
15°	13728	13802	13898
20°	13721	13809	13906
25°	13716	13815	13891
30°	13692	13826	13877
35°	13675	13832	13851
40°	13650	13832	13853
45°	13599	13826	13842
50°	13518	13767	13764
55°	13360	13694	13354
60°	13112	13492	10449
65°	12675	12143	9414
70°	11874	9343	8676
75°	10514	8146	5407
80°	8658	4795	2417
85°	5706	2938	3166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	971.9	3.3
10°-20°	2804.2	9.5
20°-30°	4299.2	14.5
30°-40°	5272.5	17.8
40°-50°	5598.5	18.9
50°-60°	5113.5	17.3
60°-70°	3561.1	12.0
70°-80°	1660.9	5.6
80°-90°	287.3	1.0
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°	8075.3	27.3
0°-40°	13347.7	45.1
0°-60°	24059.8	81.4
0°-90°	29569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29569.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10242	10242	10242	10242	10242	
5°	10161	10233	10190	10239	10247	967
15°	9856	9924	9908	9969	9977	2783
25°	9239	9320	9306	9374	9357	4258
35°	8326	8421	8421	8478	8432	5210
45°	7147	7255	7266	7312	7274	5512
55°	5695	5810	5838	5848	5693	5086
65°	3981	4104	3814	3033	2957	3928
75°	2022	2150	1567	1086	1040	2162
85°	370	243	190	204	205	477
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10242.4	10242.4	10242.4	10242.4	10242.4
2.5°	10188.4	10253.5	10210.5	10257.2	10296.5
5°	10161.4	10232.6	10189.6	10238.7	10247.3
7.5°	10117.2	10184.7	10145.4	10199.5	10213.0
10°	10050.9	10117.2	10086.5	10150.3	10162.6
12.5°	9961.2	10028.8	10005.4	10075.4	10084.0
15°	9855.6	9924.4	9908.4	9968.6	9977.2
17.5°	9731.6	9802.8	9784.4	9848.3	9854.4
20°	9583.0	9660.4	9644.4	9719.3	9712.0
22.5°	9416.0	9498.3	9486.0	9560.9	9538.8
25°	9239.2	9320.2	9305.5	9374.3	9357.1
27.5°	9031.7	9121.3	9107.8	9174.1	9147.1
30°	8813.1	8904.0	8899.0	8959.2	8932.2
32.5°	8577.3	8674.3	8669.4	8728.4	8686.6
35°	8325.6	8421.4	8421.4	8477.9	8432.4
37.5°	8059.1	8156.1	8157.4	8211.4	8168.4
40°	7771.8	7868.8	7874.9	7926.5	7887.2
42.5°	7469.7	7575.3	7580.2	7626.9	7590.0
45°	7146.7	7254.8	7265.9	7312.5	7274.4
47.5°	6809.1	6918.3	6928.2	6978.5	6951.5
50°	6457.9	6563.5	6577.0	6618.7	6575.7
52.5°	6087.0	6195.1	6213.5	6239.3	6219.6
55°	5695.3	5809.5	5837.7	5847.6	5692.8
57.5°	5290.1	5406.7	5433.7	5207.8	4710.5
60°	4872.6	4988.0	5013.8	4236.5	3882.8
62.5°	4437.9	4550.8	4579.1	3510.7	3397.8
65°	3981.1	4103.8	3814.1	3033.1	2956.9
67.5°	3512.0	3638.5	2884.5	2599.6	2554.2
70°	3018.3	3146.0	2374.9	2216.5	2205.4
72.5°	2544.3	2638.9	1948.8	1679.9	1414.6
75°	2022.5	2150.2	1566.9	1085.5	1040.1
77.5°	1568.1	1355.7	945.5	795.7	627.5
80°	1117.4	906.2	618.9	330.3	311.9
82.5°	708.5	591.9	243.1	249.3	260.3
85°	369.6	243.1	190.3	203.8	205.1
87.5°	119.1	104.4	114.2	113.0	111.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)