

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-W-WG-UNV-L840-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 (P33336)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: HBLED-LD5-30SE-W-WG-UNV-L840-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

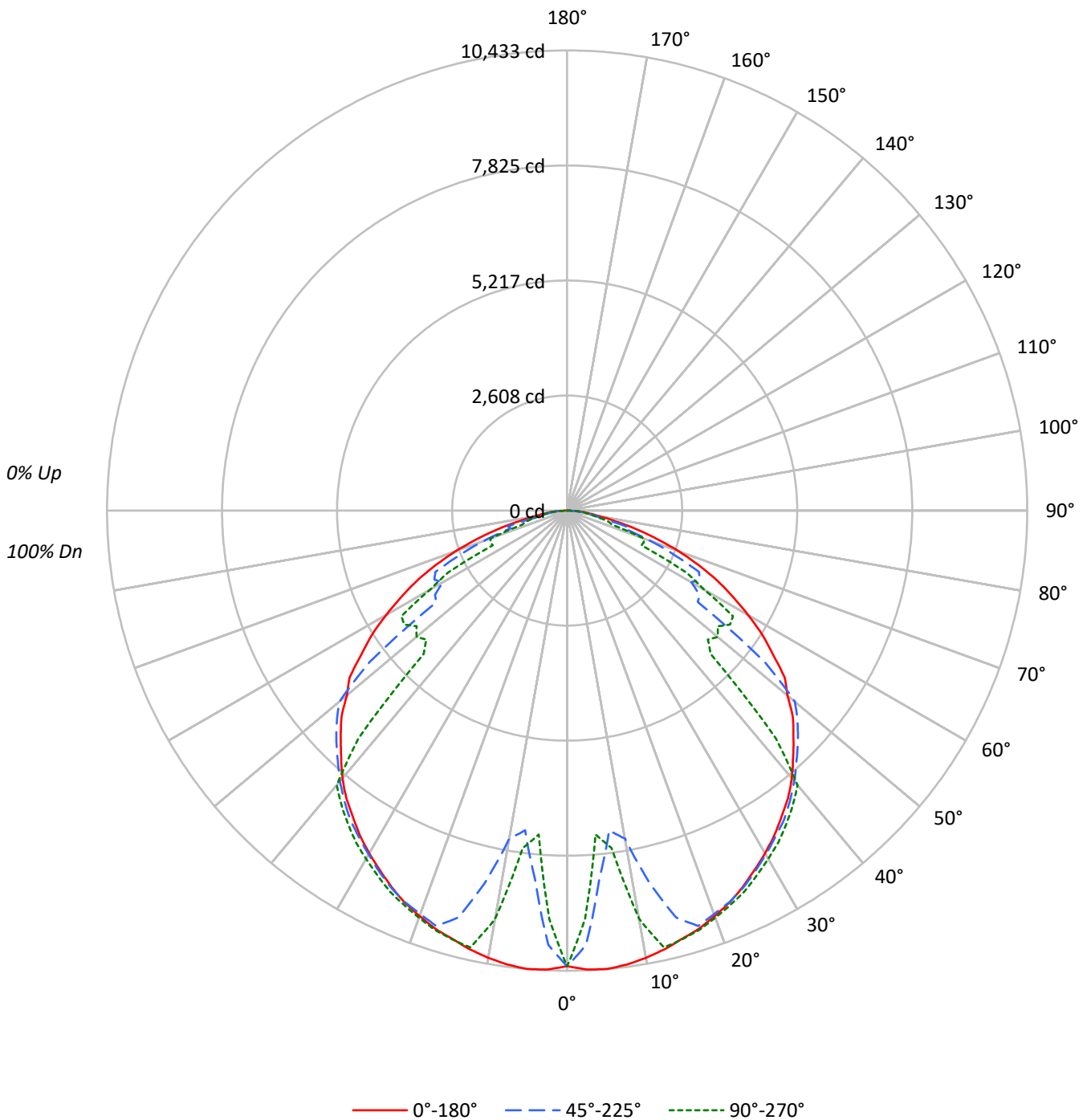
Lumens per Lamp: N/A  
Luminaire Lumens: 27365.0 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 193  
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	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13898	13898	13898
5°	14091	11320	9956
10°	14067	10324	12840
15°	14005	13306	14017
20°	14005	13941	14065
25°	13980	14011	14139
30°	13939	13985	14166
35°	13917	14071	14236
40°	13919	14071	14272
45°	13810	14080	8750
50°	13653	14108	9325
55°	13366	8484	10570
60°	12750	8745	9679
65°	11946	10499	5922
70°	10549	7954	7259
75°	8405	7230	5034
80°	5790	5225	4326
85°	5548	4824	4576



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	826.0	3.0
10°-20°	2587.7	9.5
20°-30°	4257.3	15.6
30°-40°	5353.0	19.6
40°-50°	5250.0	19.2
50°-60°	4349.9	15.9
60°-70°	3068.1	11.2
70°-80°	1338.6	4.9
80°-90°	334.4	1.2
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°	7671.0	28.0
0°-40°	13024.1	47.6
0°-60°	22623.9	82.7
0°-90°	27365.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27365.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10329	10329	10329	10329	10329	
5°	10433	9711	8382	7600	7371	991
15°	10054	6982	9552	10094	10063	2843
25°	9417	8616	9438	9501	9524	4340
35°	8473	8468	8567	8624	8667	5309
45°	7258	7280	7400	6554	4598	5602
55°	5698	5884	3616	4112	4506	5098
65°	3752	3973	3298	2537	1860	3689
75°	1617	1585	1391	909	968	1734
85°	359	320	312	299	296	373
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10329.4	10329.4	10329.4	10329.4	10329.4
2.5°	10414.6	10198.5	9855.1	9422.8	9269.7
5°	10433.1	9710.6	8381.6	7599.8	7371.3
7.5°	10380.0	8825.0	7307.0	7471.3	7713.4
10°	10296.0	8046.9	7556.5	8890.5	9398.1
12.5°	10188.6	7355.2	8657.0	10042.8	10144.1
15°	10054.0	6982.2	9552.5	10093.5	10062.6
17.5°	9940.3	7200.8	9873.6	9992.2	9970.0
20°	9781.0	7636.8	9736.5	9831.6	9823.0
22.5°	9620.4	8153.1	9606.8	9674.8	9674.8
25°	9416.6	8616.3	9437.6	9500.6	9524.1
27.5°	9193.1	8883.1	9226.4	9278.3	9320.3
30°	8972.0	8921.3	9001.6	9068.3	9117.7
32.5°	8738.5	8718.8	8781.8	8852.2	8915.2
35°	8473.0	8468.1	8566.9	8623.7	8666.9
37.5°	8223.5	8206.2	8297.6	8376.7	8410.0
40°	7924.6	7924.6	8011.1	8091.3	8125.9
42.5°	7583.7	7631.9	7698.6	7781.3	7008.1
45°	7257.6	7279.9	7399.7	6553.6	4598.4
47.5°	6943.9	6972.3	7085.9	4213.0	4327.9
50°	6522.7	6651.2	6740.1	4200.7	4455.1
52.5°	6215.2	6270.8	5658.1	4158.7	4302.0
55°	5697.7	5884.2	3616.5	4111.8	4505.8
57.5°	5255.5	5391.3	3555.9	4213.0	4457.6
60°	4738.0	4945.5	3249.6	4064.8	3596.7
62.5°	4241.4	4439.1	3392.9	3199.0	3045.8
65°	3752.3	3973.4	3297.8	2537.0	1860.1
67.5°	3216.3	3010.0	2630.8	1787.2	1881.1
70°	2681.5	2102.2	2021.9	1998.4	1845.3
72.5°	2131.8	1534.0	1342.6	1499.4	1073.3
75°	1616.8	1584.7	1390.8	909.1	968.3
77.5°	1121.5	1143.7	744.8	886.8	736.1
80°	747.3	647.2	674.4	565.7	558.3
82.5°	517.5	528.6	443.4	429.8	436.0
85°	359.4	319.9	312.5	298.9	296.4
87.5°	119.8	139.6	129.7	117.3	124.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)