

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-L850-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-L850-ED3-U  
Description: METALUX HIGH BAY LINEAR LED  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

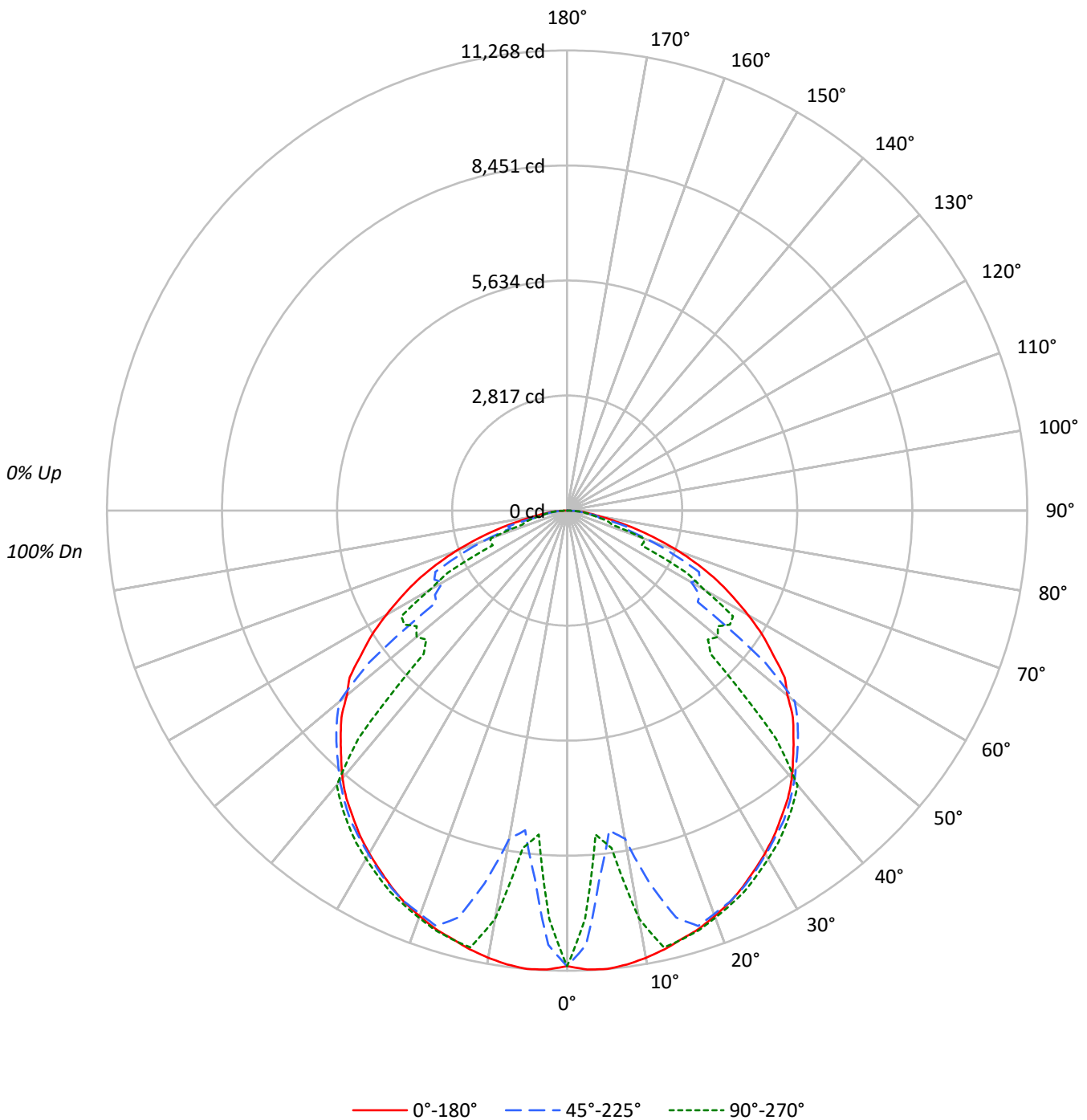
Lumens per Lamp: N/A  
Luminaire Lumens: 29555.0 lumens  
Efficiency: N/A  
Efficacy: 153.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	15010	15010	15010
5°	15219	12226	10753
10°	15193	11150	13868
15°	15126	14371	15138
20°	15126	15057	15191
25°	15099	15132	15271
30°	15055	15104	15299
35°	15031	15198	15375
40°	15033	15197	15415
45°	14915	15207	9450
50°	14746	15238	10072
55°	14435	9162	11415
60°	13770	9445	10453
65°	12902	11339	6396
70°	11393	8591	7840
75°	9078	7809	5437
80°	6254	5644	4672
85°	5993	5210	4943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	892.1	3.0
10°-20°	2794.8	9.5
20°-30°	4598.0	15.6
30°-40°	5781.4	19.6
40°-50°	5670.2	19.2
50°-60°	4698.0	15.9
60°-70°	3313.6	11.2
70°-80°	1445.7	4.9
80°-90°	361.2	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°	8284.9	28.0
0°-40°	14066.4	47.6
0°-60°	24434.5	82.7
0°-90°	29555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29555.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11156	11156	11156	11156	11156	
5°	11268	10488	9052	8208	7961	###
15°	10859	7541	10317	10901	10868	3071
25°	10170	9306	10193	10261	10286	4688
35°	9151	9146	9252	9314	9360	5733
45°	7838	7862	7992	7078	4966	6050
55°	6154	6355	3906	4441	4866	5506
65°	4053	4291	3562	2740	2009	3985
75°	1746	1712	1502	982	1046	1873
85°	388	346	338	323	320	403
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11156.1	11156.1	11156.1	11156.1	11156.1
2.5°	11248.1	11014.7	10643.8	10176.9	10011.5
5°	11268.1	10487.7	9052.4	8208.0	7961.2
7.5°	11210.7	9531.3	7891.8	8069.2	8330.7
10°	11120.0	8690.9	8161.3	9602.0	10150.2
12.5°	11004.0	7943.8	9349.8	10846.6	10956.0
15°	10858.6	7541.0	10317.0	10901.3	10867.9
17.5°	10735.8	7777.1	10663.8	10791.9	10767.9
20°	10563.8	8248.0	10515.7	10618.5	10609.1
22.5°	10390.3	8805.6	10375.7	10449.0	10449.0
25°	10170.2	9305.8	10192.9	10261.0	10286.3
27.5°	9928.8	9594.0	9964.8	10020.8	10066.2
30°	9690.0	9635.3	9722.0	9794.1	9847.4
32.5°	9437.9	9416.5	9484.6	9560.6	9628.6
35°	9151.1	9145.7	9252.5	9313.8	9360.5
37.5°	8881.6	8862.9	8961.7	9047.0	9083.1
40°	8558.8	8558.8	8652.2	8738.9	8776.2
42.5°	8190.6	8242.6	8314.7	8404.1	7569.0
45°	7838.5	7862.5	7991.9	7078.1	4966.4
47.5°	7499.6	7530.3	7653.0	4550.2	4674.3
50°	7044.7	7183.5	7279.5	4536.9	4811.7
52.5°	6712.6	6772.6	6110.9	4491.5	4646.2
55°	6153.6	6355.1	3905.9	4440.8	4866.3
57.5°	5676.1	5822.8	3840.5	4550.2	4814.3
60°	5117.1	5341.2	3509.7	4390.1	3884.5
62.5°	4580.9	4794.3	3664.4	3455.0	3289.6
65°	4052.6	4291.4	3561.7	2740.0	2009.0
67.5°	3473.7	3250.9	2841.4	1930.3	2031.6
70°	2896.1	2270.4	2183.7	2158.4	1993.0
72.5°	2302.4	1656.8	1450.0	1619.4	1159.2
75°	1746.2	1711.5	1502.1	981.8	1045.8
77.5°	1211.3	1235.3	804.4	957.8	795.1
80°	807.1	699.0	728.4	611.0	603.0
82.5°	558.9	570.9	478.9	464.2	470.9
85°	388.2	345.5	337.5	322.8	320.2
87.5°	129.4	150.7	140.1	126.7	134.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)