

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-N-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 (P23767)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30SE-N-UNV-L850-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

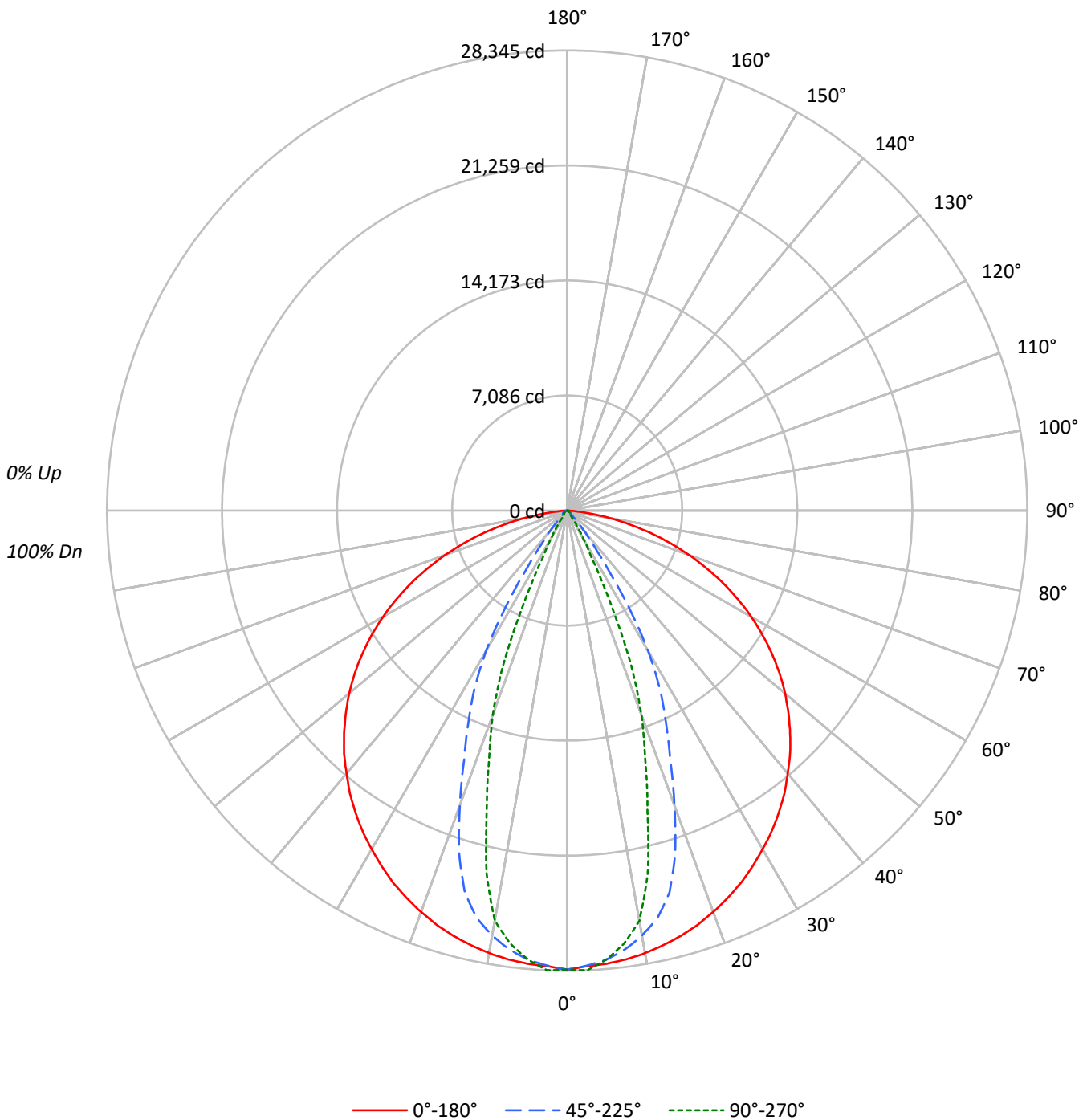
Lumens per Lamp: N/A
Luminaire Lumens: 30054.0 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: HBLED-LD5-30SE-N-UNV-L850-ED3-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-UNV-L850-ED3-U

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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	38045	38045	38045
5°	37842	37508	37491
10°	37818	36306	35032
15°	37765	33918	26661
20°	37677	27650	19191
25°	37581	21380	9454
30°	37415	15538	3066
35°	37326	6893	789
40°	37131	2800	532
45°	36965	786	566
50°	36677	557	628
55°	36148	663	268
60°	35256	738	163
65°	33806	471	193
70°	31406	418	238
75°	27475	315	329
80°	20543	386	469
85°	10175	499	624



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-UNV-L850-ED3-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2624.1	8.7
10°-20°	6561.5	21.8
20°-30°	7107.1	23.6
30°-40°	5263.1	17.5
40°-50°	3790.8	12.6
50°-60°	2347.2	7.8
60°-70°	1443.5	4.8
70°-80°	761.0	2.5
80°-90°	155.7	0.5
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°	16292.6	54.2
0°-40°	21555.7	71.7
0°-60°	27693.8	92.1
0°-90°	30054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30054.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28276	28276	28276	28276	28276	
5°	28018	28122	27770	27791	27758	###
15°	27111	26482	24350	20707	19140	7653
25°	25314	23188	14401	9060	6368	11664
35°	22725	16021	4197	987	480	14217
45°	19426	9026	413	299	297	14982
55°	15410	1859	282	256	114	13756
65°	10618	196	148	94	60	10477
75°	5285	46	60	79	63	5582
85°	659	18	32	48	40	996
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: HBLED-LD5-30SE-N-UNV-L850-ED3-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28276.2	28276.2	28276.2	28276.2	28276.2
2.5°	28094.6	28273.5	28062.3	28219.7	28344.8
5°	28017.9	28121.5	27770.4	27790.6	27758.3
7.5°	27883.4	27859.2	27268.7	27010.4	26897.4
10°	27680.3	27520.2	26573.2	26033.8	25641.0
12.5°	27418.0	27060.2	25705.6	23990.6	22925.2
15°	27111.3	26481.8	24349.7	20707.1	19140.0
17.5°	26745.4	25853.6	22132.9	17355.0	15956.0
20°	26313.6	25152.8	19310.8	14765.6	13403.0
22.5°	25832.1	24299.9	16569.4	12271.7	10328.0
25°	25314.2	23187.5	14401.1	9059.5	6367.9
27.5°	24715.6	21757.6	12367.2	5336.2	3249.9
30°	24082.0	20035.8	10001.1	2870.5	1973.3
32.5°	23443.1	18084.0	7076.8	1793.1	1119.2
35°	22724.8	16020.6	4196.8	987.3	480.2
37.5°	21975.5	14129.3	2480.4	449.3	308.0
40°	21140.2	12400.8	1594.0	298.6	302.7
42.5°	20333.1	10789.4	897.2	294.6	300.0
45°	19426.5	9025.9	413.0	298.6	297.3
47.5°	18488.9	7197.8	267.7	301.3	301.3
50°	17521.8	5146.5	266.3	308.0	300.0
52.5°	16500.8	3210.8	277.1	306.7	246.2
55°	15409.9	1859.0	282.5	255.6	114.3
57.5°	14280.0	1096.3	285.2	146.6	64.6
60°	13101.7	606.7	274.4	109.0	60.5
62.5°	11887.0	289.2	216.6	102.2	59.2
65°	10618.5	196.4	148.0	94.2	60.5
67.5°	9301.6	152.0	117.0	88.8	61.9
70°	7983.4	113.0	106.3	88.8	60.5
72.5°	6643.6	76.7	88.8	90.1	60.5
75°	5285.1	45.7	60.5	79.4	63.2
77.5°	3938.6	28.2	47.1	82.1	76.7
80°	2651.3	24.2	49.8	76.7	60.5
82.5°	1556.3	21.5	48.4	59.2	48.4
85°	659.1	17.5	32.3	48.4	40.4
87.5°	123.8	14.8	25.6	39.0	35.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)