

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-N-CLI-UNV-L850-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 (P23769)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-30HE-N-CLI-UNV-L850-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

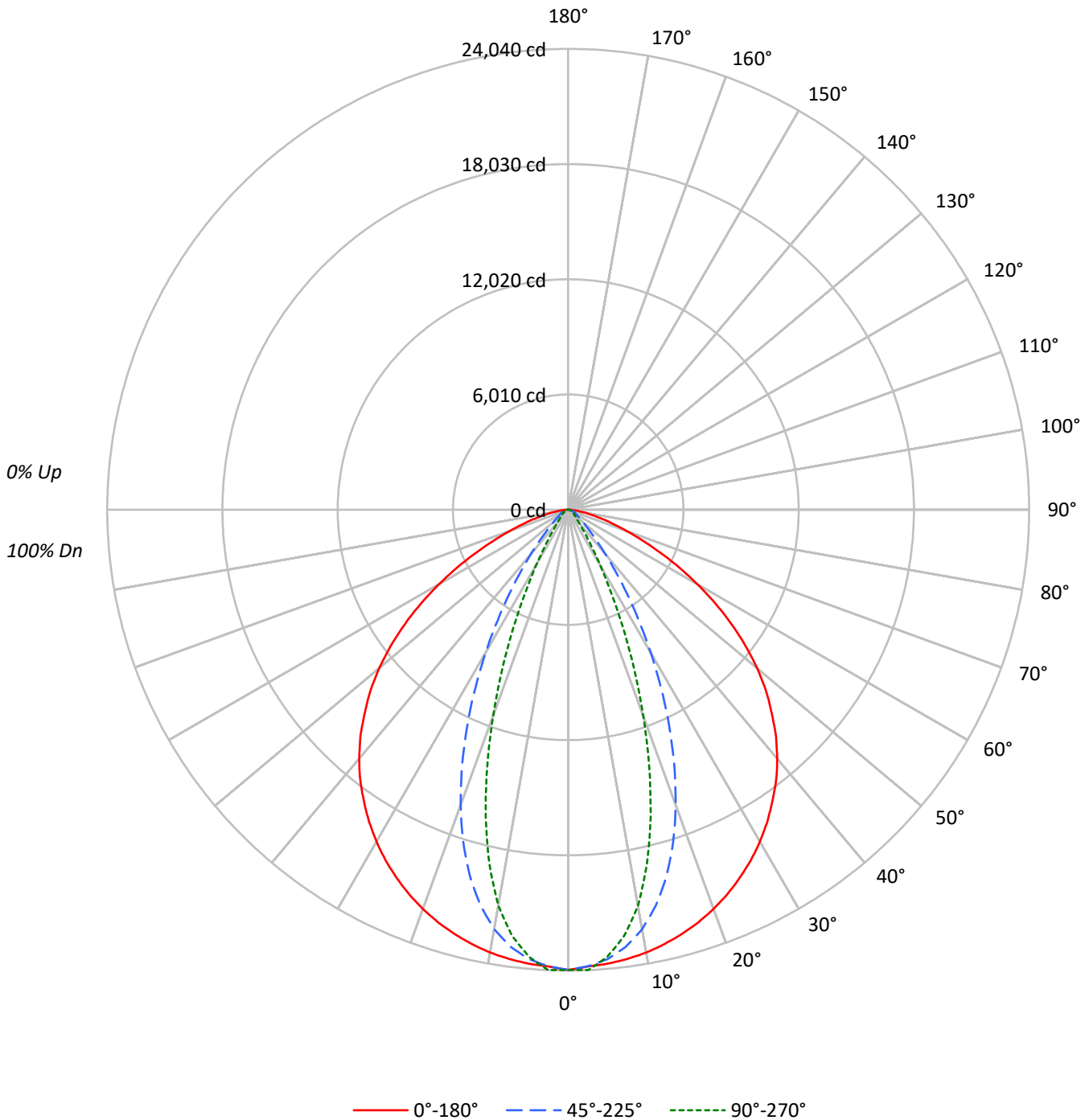
Lumens per Lamp: N/A
Luminaire Lumens: 26282.0 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32301	32301	32301
5°	32106	31787	31620
10°	32053	30348	28637
15°	31924	27586	23128
20°	31732	23473	16392
25°	31448	18509	9904
30°	31066	13358	5090
35°	30505	8733	2542
40°	29782	5246	1483
45°	28545	3133	1109
50°	26923	2049	932
55°	24367	1554	813
60°	20940	1324	742
65°	16843	1208	700
70°	12689	1293	696
75°	9334	1229	716
80°	6829	1225	784
85°	5115	1484	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2210.9	8.4
10°-20°	5500.2	20.9
20°-30°	6092.3	23.2
30°-40°	4881.0	18.6
40°-50°	3484.4	13.3
50°-60°	2238.1	8.5
60°-70°	1212.9	4.6
70°-80°	518.4	2.0
80°-90°	143.8	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°	13803.4	52.5
0°-40°	18684.4	71.1
0°-60°	24406.9	92.9
0°-90°	26282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24007	24007	24007	24007	24007	
5°	23772	23860	23535	23460	23411	###
15°	22918	22201	19804	17501	16603	6466
25°	21183	18678	12467	8123	6671	9759
35°	18572	13433	5317	2144	1548	11612
45°	15001	7755	1646	700	583	11563
55°	10387	3467	663	407	346	9257
65°	5290	1424	379	262	220	5298
75°	1796	521	236	164	138	1995
85°	331	138	96	80	66	405
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24006.7	24006.7	24006.7	24006.7	24006.7
2.5°	23848.7	23997.9	23837.3	23937.2	24039.6
5°	23771.5	23860.0	23535.1	23460.5	23411.2
7.5°	23637.5	23612.2	23001.5	22605.7	22414.8
10°	23460.5	23255.6	22212.5	21342.5	20960.7
12.5°	23207.6	22785.3	21144.0	19616.6	18969.2
15°	22918.0	22201.1	19803.7	17501.2	16603.4
17.5°	22571.6	21518.3	18201.7	15232.7	14048.0
20°	22161.9	20693.9	16393.5	12822.7	11448.3
22.5°	21704.2	19743.0	14457.6	10420.3	8945.9
25°	21183.2	18678.3	12467.4	8122.8	6671.2
27.5°	20620.5	17496.1	10488.6	6069.3	4745.5
30°	19995.9	16216.5	8598.2	4376.2	3276.2
32.5°	19314.4	14855.9	6841.9	3077.7	2240.6
35°	18572.1	13433.4	5317.0	2144.5	1547.7
37.5°	17812.2	11981.9	4015.9	1516.1	1110.2
40°	16956.2	10535.3	2986.6	1110.2	844.6
42.5°	16036.9	9116.6	2210.2	854.8	684.1
45°	15001.3	7754.8	1646.3	700.5	582.9
47.5°	13997.4	6485.3	1250.5	596.8	507.0
50°	12861.9	5339.7	978.7	521.0	445.1
52.5°	11656.9	4332.0	794.1	459.0	392.0
55°	10387.4	3467.1	662.6	407.2	346.5
57.5°	9101.5	2746.4	566.5	362.9	308.5
60°	7781.4	2196.3	491.9	325.0	275.6
62.5°	6492.9	1756.3	429.9	292.1	246.6
65°	5290.4	1423.8	379.3	261.7	220.0
67.5°	4179.0	1125.4	354.0	235.2	198.5
70°	3225.6	876.3	328.8	209.9	177.0
72.5°	2444.2	672.7	290.8	187.1	156.8
75°	1795.5	521.0	236.5	164.4	137.8
77.5°	1284.7	400.8	192.2	142.9	118.9
80°	881.3	298.4	158.1	122.7	101.2
82.5°	572.8	211.2	127.7	101.2	83.5
85°	331.3	137.8	96.1	79.7	65.8
87.5°	142.9	75.9	65.8	59.4	50.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)