

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-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 (P23767)
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-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

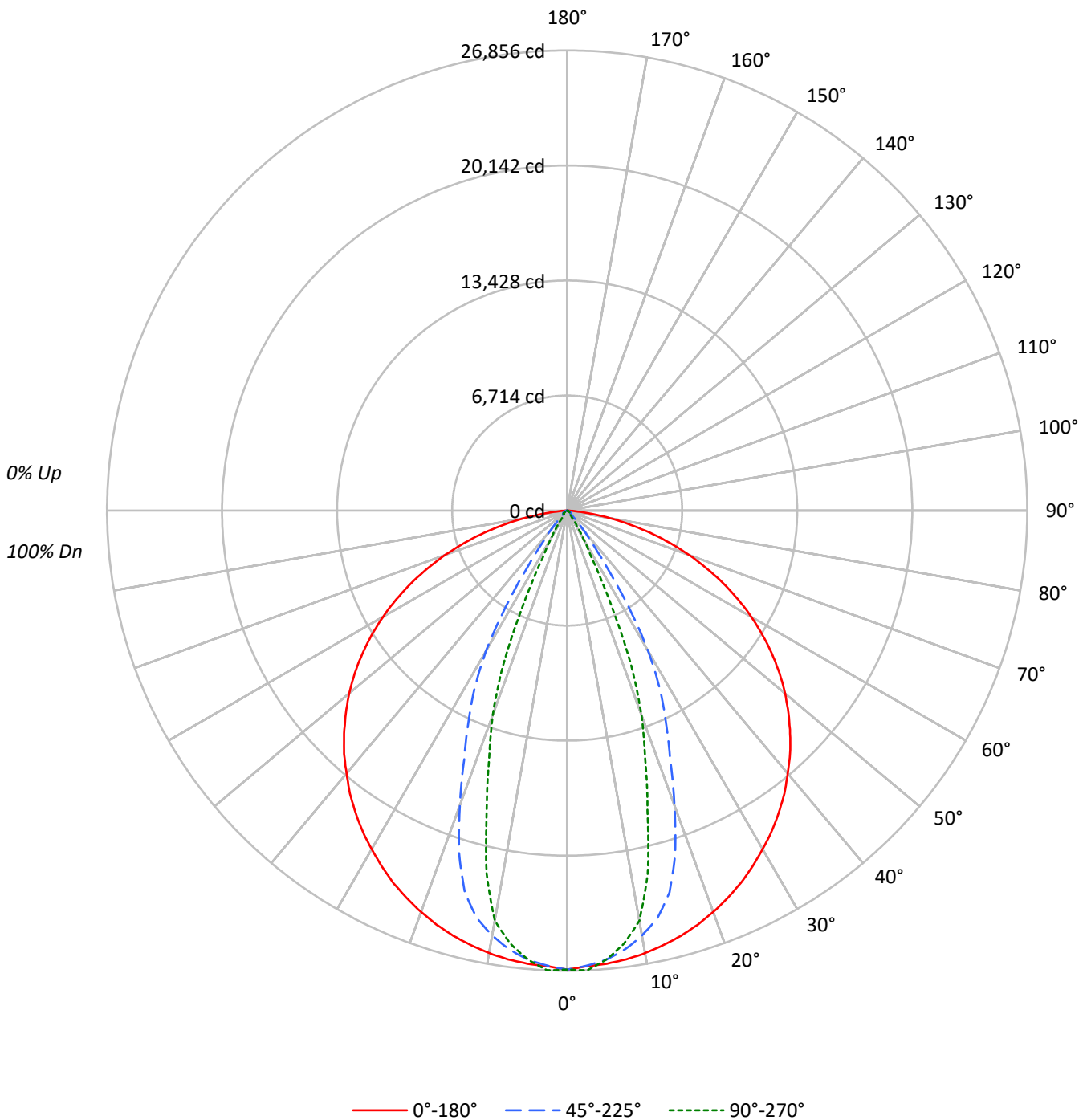
Lumens per Lamp: N/A
Luminaire Lumens: 28475.0 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36046	36046	36046
5°	35854	35537	35521
10°	35831	34398	33191
15°	35781	32136	25260
20°	35697	26197	18183
25°	35607	20256	8957
30°	35449	14722	2905
35°	35365	6531	747
40°	35180	2653	504
45°	35023	745	536
50°	34750	528	595
55°	34249	628	254
60°	33404	700	154
65°	32030	446	183
70°	29756	396	226
75°	26031	298	311
80°	19464	366	445
85°	9641	472	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2486.2	8.7
10°-20°	6216.7	21.8
20°-30°	6733.7	23.6
30°-40°	4986.6	17.5
40°-50°	3591.7	12.6
50°-60°	2223.9	7.8
60°-70°	1367.7	4.8
70°-80°	721.0	2.5
80°-90°	147.6	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°	15436.6	54.2
0°-40°	20423.2	71.7
0°-60°	26238.8	92.1
0°-90°	28475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26791	26791	26791	26791	26791	
5°	26546	26644	26311	26330	26300	###
15°	25687	25090	23070	19619	18134	7251
25°	23984	21969	13644	8584	6033	11051
35°	21531	15179	3976	936	455	13470
45°	18406	8552	391	283	282	14195
55°	14600	1761	268	242	108	13034
65°	10061	186	140	89	57	9926
75°	5007	43	57	75	60	5289
85°	624	17	31	46	38	944
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26790.6	26790.6	26790.6	26790.6	26790.6
2.5°	26618.5	26788.0	26587.9	26737.0	26855.6
5°	26545.9	26644.0	26311.4	26330.5	26299.9
7.5°	26418.4	26395.5	25836.0	25591.3	25484.2
10°	26226.0	26074.3	25177.1	24666.0	24293.9
12.5°	25977.5	25638.5	24355.1	22730.1	21720.7
15°	25686.9	25090.4	23070.4	19619.1	18134.4
17.5°	25340.2	24495.3	20970.1	16443.2	15117.7
20°	24931.1	23831.3	18296.3	13989.8	12698.8
22.5°	24474.9	23023.2	15698.9	11627.0	9785.4
25°	23984.2	21969.3	13644.4	8583.5	6033.3
27.5°	23417.1	20614.5	11717.5	5055.8	3079.1
30°	22816.8	18983.2	9475.7	2719.7	1869.6
32.5°	22211.4	17133.9	6705.0	1698.9	1060.4
35°	21530.8	15178.9	3976.3	935.5	455.0
37.5°	20821.0	13387.0	2350.1	425.7	291.9
40°	20029.5	11749.3	1510.2	282.9	286.8
42.5°	19264.8	10222.5	850.1	279.1	284.2
45°	18405.9	8551.7	391.3	282.9	281.7
47.5°	17517.6	6819.7	253.6	285.5	285.5
50°	16601.2	4876.1	252.3	291.9	284.2
52.5°	15633.9	3042.2	262.5	290.6	233.2
55°	14600.3	1761.3	267.6	242.1	108.3
57.5°	13529.7	1038.7	270.2	138.9	61.2
60°	12413.3	574.8	260.0	103.2	57.4
62.5°	11262.5	274.0	205.2	96.9	56.1
65°	10060.6	186.1	140.2	89.2	57.4
67.5°	8812.9	144.0	110.9	84.1	58.6
70°	7564.0	107.1	100.7	84.1	57.4
72.5°	6294.6	72.6	84.1	85.4	57.4
75°	5007.4	43.3	57.4	75.2	59.9
77.5°	3731.6	26.8	44.6	77.7	72.6
80°	2512.0	22.9	47.2	72.6	57.4
82.5°	1474.6	20.4	45.9	56.1	45.9
85°	624.5	16.6	30.6	45.9	38.2
87.5°	117.3	14.0	24.2	37.0	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)