

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-CL-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 (P23768)
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-CL-UNV-L840-ED2-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

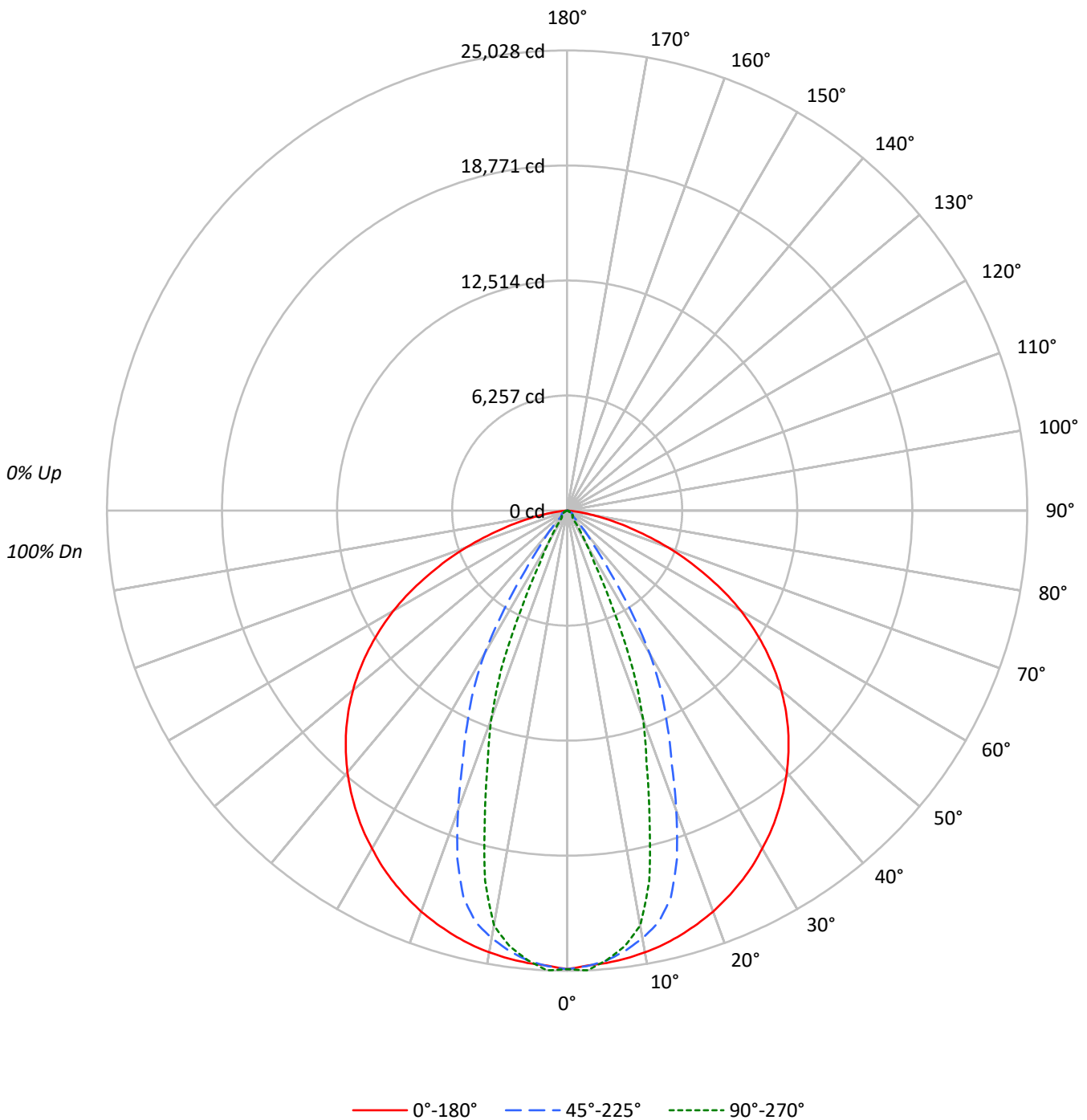
Lumens per Lamp: N/A
Luminaire Lumens: 26678.0 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90					90			
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81					81			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73					73			
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66					66			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60					60			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55					55			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51					51			
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47					47			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44					44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	33563	33563	33563
5°	33356	33182	33158
10°	33334	32265	31313
15°	33296	30341	24077
20°	33231	24829	17270
25°	33127	19130	8776
30°	32970	13961	3193
35°	32852	6411	1111
40°	32650	2910	767
45°	32360	1086	777
50°	31844	788	818
55°	30901	829	623
60°	29365	886	549
65°	26631	675	447
70°	22833	487	412
75°	17452	431	391
80°	10919	405	425
85°	3449	472	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2322.3	8.7
10°-20°	5850.1	21.9
20°-30°	6371.1	23.9
30°-40°	4765.9	17.9
40°-50°	3426.8	12.8
50°-60°	2104.6	7.9
60°-70°	1211.0	4.5
70°-80°	540.5	2.0
80°-90°	85.7	0.3
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°	14543.5	54.5
0°-40°	19309.4	72.4
0°-60°	24840.7	93.1
0°-90°	26678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24945	24945	24945	24945	24945	
5°	24697	24813	24568	24591	24550	###
15°	23903	23445	21782	18707	17285	6747
25°	22314	20713	12886	8268	5911	10286
35°	20001	14345	3903	1148	676	12511
45°	17006	8060	571	422	408	13101
55°	13173	1675	354	342	266	11745
65°	8365	184	212	176	140	8280
75°	3357	111	83	86	75	3643
85°	223	22	31	40	37	445
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24944.6	24944.6	24944.6	24944.6	24944.6
2.5°	24771.0	24933.1	24796.6	24919.1	25027.6
5°	24697.0	24813.2	24568.1	24591.1	24550.2
7.5°	24569.4	24597.4	24154.5	23983.5	23900.5
10°	24398.3	24323.0	23615.8	23208.6	22918.9
12.5°	24182.6	23933.7	22945.7	21491.8	20625.1
15°	23903.0	23444.8	21781.6	18706.6	17284.6
17.5°	23569.9	22934.2	19854.1	15590.7	14360.2
20°	23208.6	22370.0	17340.7	13256.1	12061.3
22.5°	22782.3	21648.8	14861.9	11024.8	9384.6
25°	22313.8	20713.2	12885.9	8267.6	5911.3
27.5°	21808.4	19478.8	11056.7	5070.1	3196.3
30°	21221.2	17976.4	8986.3	2845.2	2055.1
32.5°	20648.1	16225.1	6419.3	1895.5	1313.5
35°	20000.9	14344.9	3903.4	1147.5	676.5
37.5°	19315.4	12635.7	2443.1	624.2	467.2
40°	18589.1	11014.6	1656.8	442.9	436.6
42.5°	17813.0	9547.9	1037.8	421.2	435.3
45°	17006.3	8059.6	570.6	422.5	408.5
47.5°	16130.7	6443.6	398.3	399.5	398.3
50°	15212.9	4622.1	376.6	394.4	390.6
52.5°	14223.6	2869.5	377.8	385.5	345.9
55°	13173.1	1674.7	353.6	342.1	265.5
57.5°	12069.0	1044.1	345.9	282.1	238.7
60°	10912.5	551.4	329.3	254.0	204.2
62.5°	9680.7	271.9	264.2	217.0	167.2
65°	8364.7	183.8	211.9	176.2	140.4
67.5°	7093.3	165.9	159.6	144.2	122.5
70°	5804.1	151.9	123.8	126.4	104.7
72.5°	4539.1	137.9	99.6	108.5	88.1
75°	3357.1	111.1	83.0	85.5	75.3
77.5°	2335.9	86.8	65.1	72.8	70.2
80°	1409.2	54.9	52.3	60.0	54.9
82.5°	682.9	35.7	40.8	47.2	43.4
85°	223.4	21.7	30.6	39.6	37.0
87.5°	28.1	12.8	25.5	34.5	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)