

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-CL-UNV-L740-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 (P23768)
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-CL-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

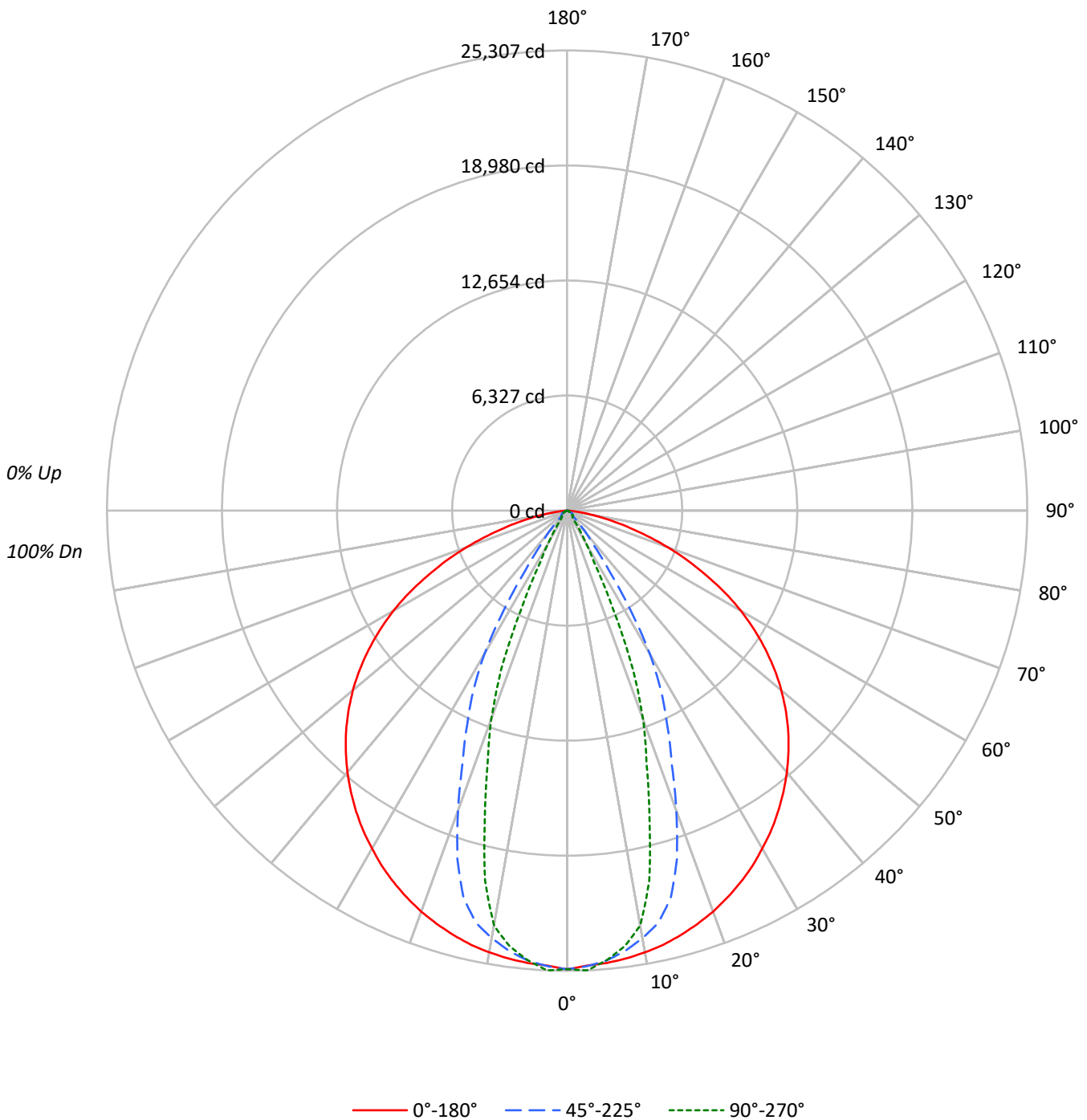
Lumens per Lamp: N/A
Luminaire Lumens: 26976.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	33938	33938	33938
5°	33729	33553	33529
10°	33706	32625	31663
15°	33668	30680	24346
20°	33602	25106	17463
25°	33497	19344	8874
30°	33338	14117	3229
35°	33219	6483	1124
40°	33015	2943	775
45°	32721	1098	786
50°	32199	797	827
55°	31246	839	630
60°	29693	896	556
65°	26928	682	452
70°	23088	493	416
75°	17647	436	396
80°	11041	410	430
85°	3487	479	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2348.3	8.7
10°-20°	5915.5	21.9
20°-30°	6442.2	23.9
30°-40°	4819.1	17.9
40°-50°	3465.1	12.8
50°-60°	2128.1	7.9
60°-70°	1224.5	4.5
70°-80°	546.6	2.0
80°-90°	86.7	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°	14706.0	54.5
0°-40°	19525.1	72.4
0°-60°	25118.2	93.1
0°-90°	26976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25223	25223	25223	25223	25223	
5°	24973	25090	24842	24866	24824	###
15°	24170	23707	22025	18916	17478	6823
25°	22563	20944	13030	8360	5977	10401
35°	20224	14505	3947	1160	684	12651
45°	17196	8150	577	427	413	13247
55°	13320	1693	358	346	268	11876
65°	8458	186	214	178	142	8372
75°	3395	112	84	86	76	3684
85°	226	22	31	40	37	450
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25223.3	25223.3	25223.3	25223.3	25223.3
2.5°	25047.7	25211.7	25073.6	25197.5	25307.2
5°	24972.9	25090.3	24842.5	24865.7	24824.4
7.5°	24843.8	24872.2	24424.3	24251.4	24167.5
10°	24670.8	24594.7	23879.6	23467.9	23174.9
12.5°	24452.7	24201.0	23202.0	21731.9	20855.5
15°	24170.0	23706.7	22024.9	18915.5	17477.7
17.5°	23833.2	23190.4	20075.9	15764.9	14520.6
20°	23467.9	22619.9	17534.4	13404.1	12196.0
22.5°	23036.8	21890.6	15027.9	11148.0	9489.4
25°	22563.1	20944.5	13029.8	8360.0	5977.3
27.5°	22052.0	19696.4	11180.2	5126.7	3232.0
30°	21458.2	18177.2	9086.7	2877.0	2078.1
32.5°	20878.7	16406.4	6491.0	1916.7	1328.2
35°	20224.3	14505.1	3947.0	1160.4	684.1
37.5°	19531.2	12776.8	2470.4	631.2	472.4
40°	18796.8	11137.6	1675.4	447.9	441.4
42.5°	18012.0	9654.6	1049.4	425.9	440.1
45°	17196.3	8149.6	577.0	427.2	413.0
47.5°	16310.8	6515.6	402.7	404.0	402.7
50°	15382.8	4673.7	380.8	398.8	395.0
52.5°	14382.5	2901.5	382.1	389.8	349.8
55°	13320.2	1693.4	357.5	345.9	268.5
57.5°	12203.8	1055.8	349.8	285.2	241.4
60°	11034.4	557.6	333.0	256.9	206.5
62.5°	9788.8	274.9	267.2	219.4	169.1
65°	8458.1	185.9	214.3	178.1	142.0
67.5°	7172.5	167.8	161.3	145.9	123.9
70°	5868.9	153.6	125.2	127.8	105.8
72.5°	4589.8	139.4	100.7	109.7	89.1
75°	3394.6	112.3	83.9	86.5	76.2
77.5°	2362.0	87.8	65.8	73.6	71.0
80°	1425.0	55.5	52.9	60.7	55.5
82.5°	690.5	36.1	41.3	47.8	43.9
85°	225.9	21.9	31.0	40.0	37.4
87.5°	28.4	12.9	25.8	34.8	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)