

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-L840-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-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

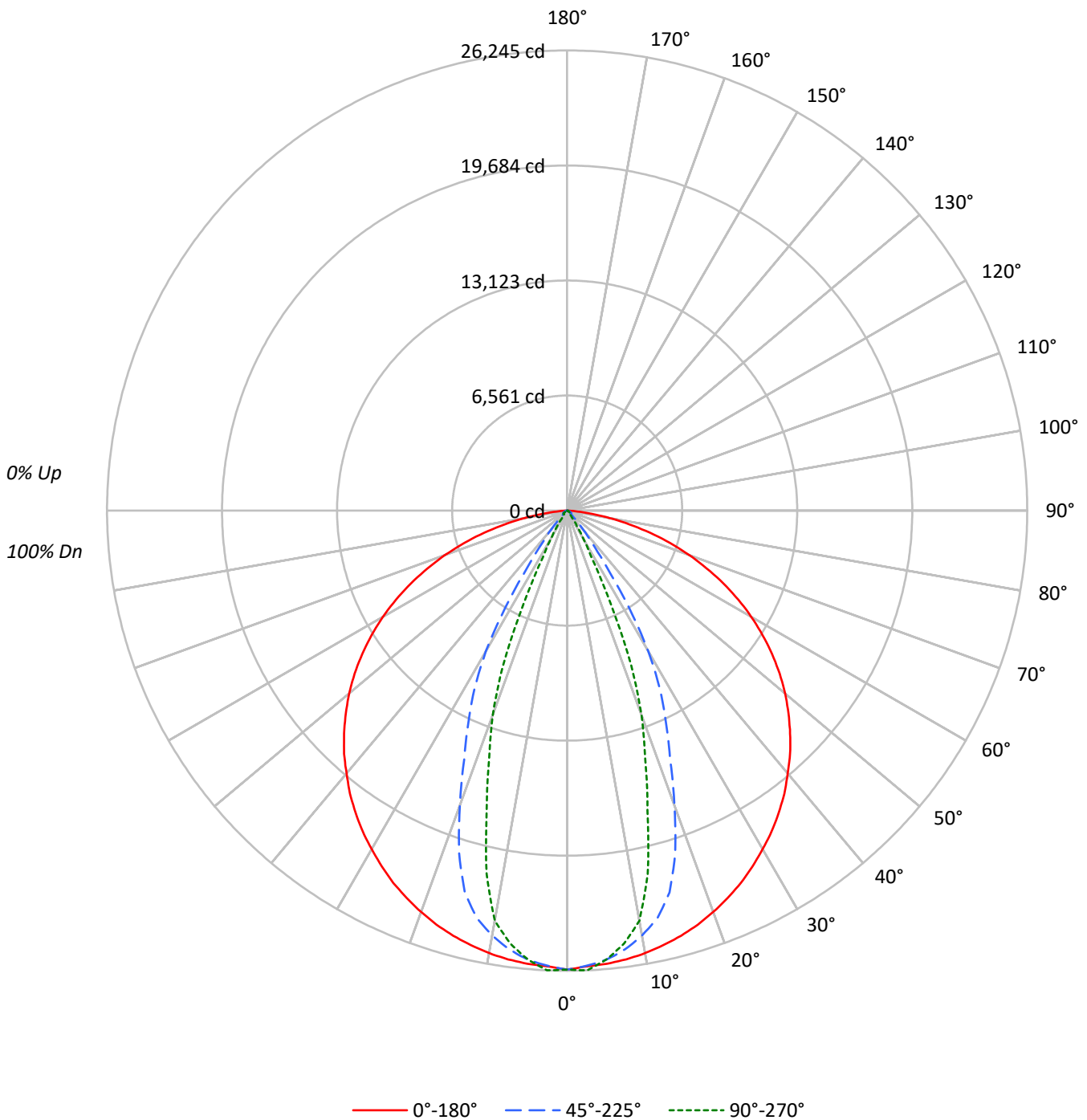
Lumens per Lamp: N/A
Luminaire Lumens: 27828.0 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	35227	35227	35227
5°	35039	34729	34714
10°	35017	33616	32437
15°	34968	31406	24686
20°	34886	25602	17770
25°	34797	19796	8753
30°	34643	14387	2839
35°	34562	6383	730
40°	34381	2592	492
45°	34227	728	524
50°	33960	516	581
55°	33471	614	248
60°	32645	684	151
65°	31302	436	178
70°	29080	387	220
75°	25440	291	304
80°	19021	357	434
85°	9422	462	577



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2429.7	8.7
10°-20°	6075.5	21.8
20°-30°	6580.7	23.6
30°-40°	4873.3	17.5
40°-50°	3510.0	12.6
50°-60°	2173.4	7.8
60°-70°	1336.6	4.8
70°-80°	704.6	2.5
80°-90°	144.2	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°	15085.9	54.2
0°-40°	19959.2	71.7
0°-60°	25642.6	92.1
0°-90°	27828.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	27828.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26182	26182	26182	26182	26182	
5°	25943	26039	25714	25732	25702	###
15°	25103	24520	22546	19173	17722	7086
25°	23439	21470	13334	8388	5896	10800
35°	21042	14834	3886	914	445	13164
45°	17988	8357	382	276	275	13872
55°	14269	1721	262	237	106	12738
65°	9832	182	137	87	56	9701
75°	4894	42	56	74	58	5169
85°	610	16	30	45	37	922
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	26181.8	26181.8	26181.8	26181.8	26181.8
2.5°	26013.7	26179.4	25983.8	26129.5	26245.4
5°	25942.7	26038.6	25713.5	25732.2	25702.3
7.5°	25818.2	25795.7	25249.0	25009.8	24905.2
10°	25630.1	25481.9	24605.0	24105.6	23741.9
12.5°	25387.2	25055.9	23801.7	22213.7	21227.2
15°	25103.2	24520.3	22546.2	19173.4	17722.3
17.5°	24764.5	23938.7	20493.6	16069.6	14774.2
20°	24364.6	23289.8	17880.5	13672.0	12410.3
22.5°	23918.8	22500.1	15342.2	11362.8	9563.0
25°	23439.2	21470.1	13334.4	8388.5	5896.2
27.5°	22885.0	20146.1	11451.2	4940.9	3009.1
30°	22298.3	18551.9	9260.4	2657.9	1827.2
32.5°	21706.7	16744.6	6552.6	1660.3	1036.3
35°	21041.6	14834.0	3886.0	914.2	444.6
37.5°	20347.9	13082.8	2296.7	416.0	285.2
40°	19574.4	11482.3	1475.9	276.5	280.2
42.5°	18827.1	9990.2	830.8	272.8	277.7
45°	17987.6	8357.4	382.4	276.5	275.3
47.5°	17119.5	6664.7	247.9	279.0	279.0
50°	16224.0	4765.3	246.6	285.2	277.7
52.5°	15278.7	2973.0	256.6	284.0	227.9
55°	14268.6	1721.3	261.6	236.6	105.9
57.5°	13222.3	1015.1	264.0	135.8	59.8
60°	12131.3	561.7	254.1	100.9	56.0
62.5°	11006.6	267.8	200.5	94.7	54.8
65°	9832.0	181.8	137.0	87.2	56.0
67.5°	8612.7	140.7	108.4	82.2	57.3
70°	7392.1	104.6	98.4	82.2	56.0
72.5°	6151.6	71.0	82.2	83.4	56.0
75°	4893.6	42.3	56.0	73.5	58.5
77.5°	3646.9	26.2	43.6	76.0	71.0
80°	2454.9	22.4	46.1	71.0	56.0
82.5°	1441.1	19.9	44.8	54.8	44.8
85°	610.3	16.2	29.9	44.8	37.4
87.5°	114.6	13.7	23.7	36.1	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)