

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-L750-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-L750-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

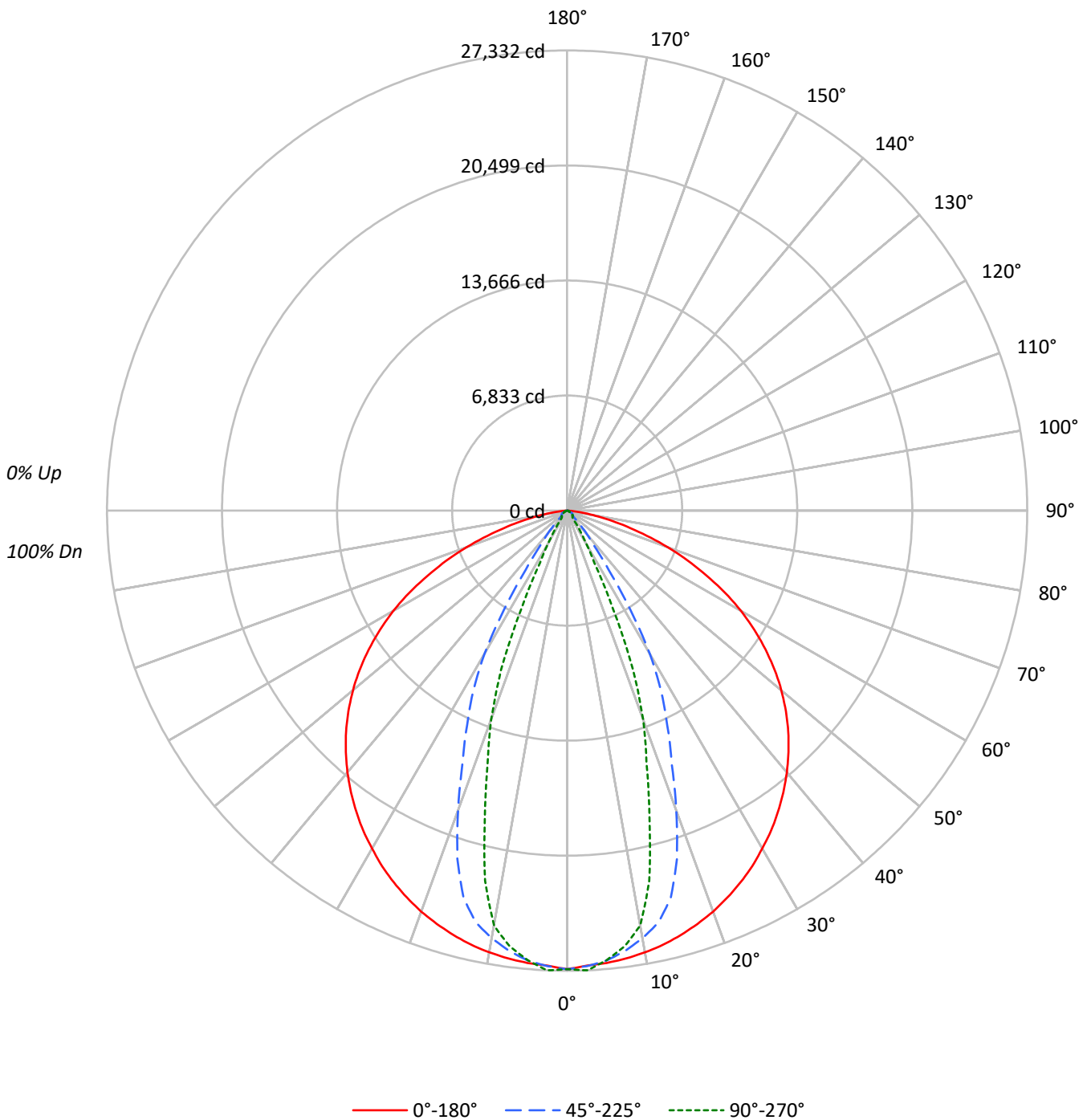
Lumens per Lamp: N/A
Luminaire Lumens: 29134.0 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	105	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90				
2	105	99	94	90	102	97	92	89	94	90	87	91	87	85	88	85	83	81				
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73				
4	92	83	76	71	90	82	75	71	79	74	70	77	73	69	75	71	68	66				
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60				
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55				
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51				
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	58	53	49	47				
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44				
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	36653	36653	36653
5°	36427	36237	36211
10°	36403	35235	34195
15°	36361	33134	26293
20°	36290	27115	18860
25°	36176	20891	9584
30°	36005	15247	3487
35°	35877	7002	1214
40°	35656	3178	837
45°	35339	1186	849
50°	34775	861	893
55°	33746	906	680
60°	32069	968	600
65°	29082	737	488
70°	24935	532	450
75°	19059	471	427
80°	11924	443	464
85°	3765	517	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2536.1	8.7
10°-20°	6388.7	21.9
20°-30°	6957.6	23.9
30°-40°	5204.6	17.9
40°-50°	3742.2	12.8
50°-60°	2298.3	7.9
60°-70°	1322.5	4.5
70°-80°	590.3	2.0
80°-90°	93.6	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°	15882.4	54.5
0°-40°	21087.1	72.4
0°-60°	27127.6	93.1
0°-90°	29134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27241	27241	27241	27241	27241	
5°	26971	27098	26830	26855	26810	###
15°	26104	25603	23787	20429	18876	7369
25°	24368	22620	14072	9029	6456	11233
35°	21842	15666	4263	1253	739	13663
45°	18572	8802	623	461	446	14307
55°	14386	1829	386	374	290	12826
65°	9135	201	231	192	153	9042
75°	3666	121	91	93	82	3978
85°	244	24	34	43	40	486
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27241.1	27241.1	27241.1	27241.1	27241.1
2.5°	27051.5	27228.5	27079.4	27213.2	27331.7
5°	26970.6	27097.5	26829.8	26854.9	26810.3
7.5°	26831.2	26861.9	26378.2	26191.4	26100.8
10°	26644.4	26562.2	25789.9	25345.3	25028.8
12.5°	26408.9	26137.0	25058.1	23470.4	22523.8
15°	26103.6	25603.1	23786.8	20428.7	18875.8
17.5°	25739.8	25045.6	21681.9	17026.0	15682.2
20°	25345.3	24429.4	18937.2	14476.4	13171.7
22.5°	24879.7	23641.8	16230.1	12039.8	10248.5
25°	24368.1	22620.0	14072.2	9028.8	6455.5
27.5°	23816.1	21272.1	12074.6	5536.9	3490.5
30°	23174.8	19631.4	9813.6	3107.2	2244.3
32.5°	22548.9	17718.8	7010.3	2070.1	1434.4
35°	21842.2	15665.5	4262.8	1253.2	738.8
37.5°	21093.6	13799.0	2668.1	681.7	510.2
40°	20300.5	12028.6	1809.4	483.7	476.7
42.5°	19452.9	10426.9	1133.3	460.0	475.3
45°	18571.9	8801.6	623.1	461.4	446.1
47.5°	17615.7	7036.8	434.9	436.3	434.9
50°	16613.4	5047.6	411.2	430.7	426.6
52.5°	15533.1	3133.7	412.6	421.0	377.8
55°	14385.8	1828.9	386.1	373.6	289.9
57.5°	13180.0	1140.3	377.8	308.1	260.7
60°	11917.1	602.2	359.6	277.4	223.0
62.5°	10571.9	296.9	288.6	237.0	182.6
65°	9134.7	200.7	231.4	192.4	153.3
67.5°	7746.3	181.2	174.2	157.5	133.8
70°	6338.4	165.9	135.2	138.0	114.3
72.5°	4957.0	150.5	108.7	118.5	96.2
75°	3666.2	121.3	90.6	93.4	82.2
77.5°	2551.0	94.8	71.1	79.5	76.7
80°	1538.9	59.9	57.2	65.5	59.9
82.5°	745.8	39.0	44.6	51.6	47.4
85°	243.9	23.7	33.5	43.2	40.4
87.5°	30.7	13.9	27.9	37.6	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)