

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-CLI-UNV-L735-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 (P23769)
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-CLI-UNV-L735-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

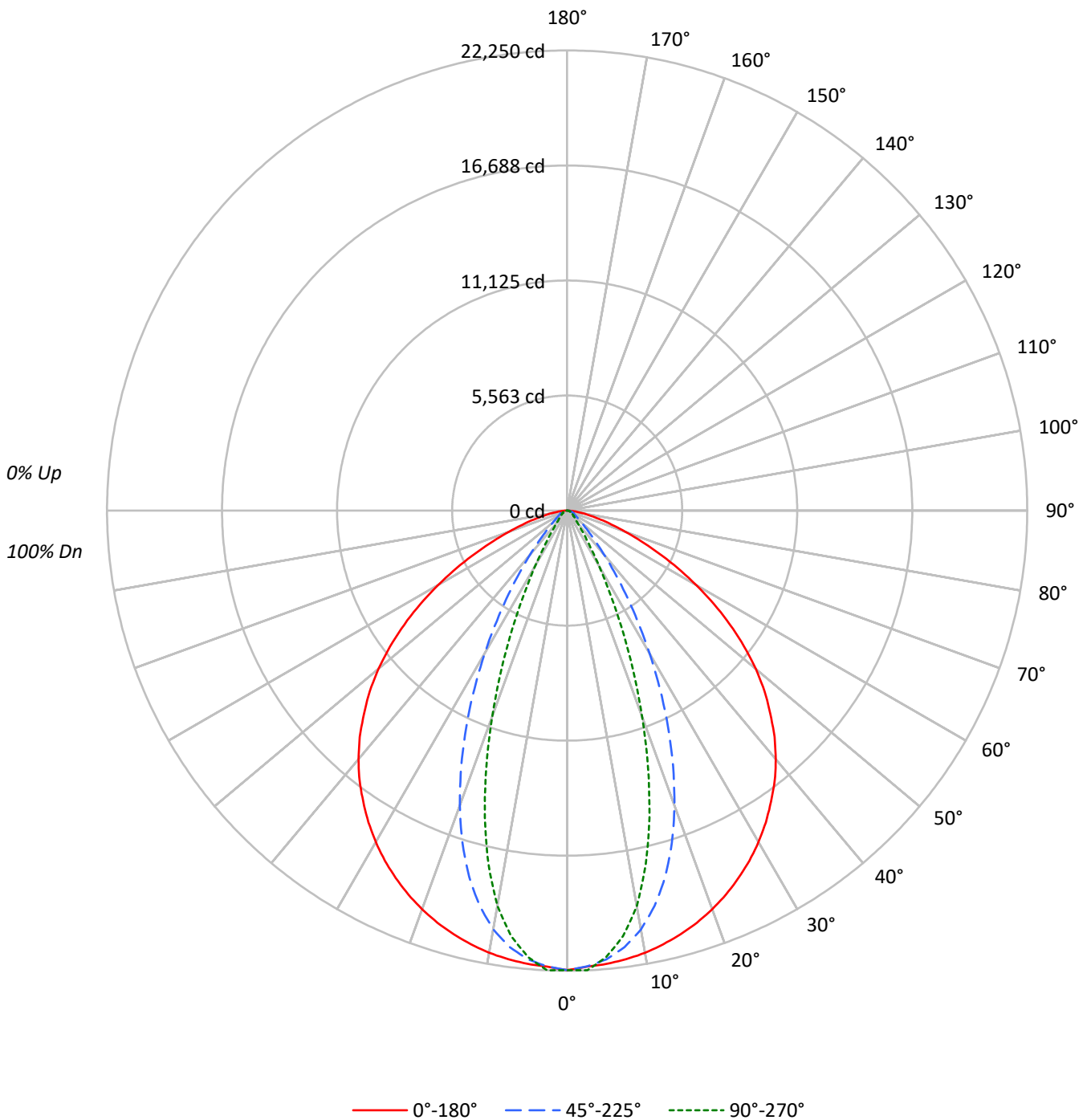
Lumens per Lamp: N/A
Luminaire Lumens: 24325.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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	75	81	77	74	72
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29896	29896	29896
5°	29716	29420	29265
10°	29666	28088	26505
15°	29547	25532	21406
20°	29369	21725	15171
25°	29107	17131	9167
30°	28753	12364	4711
35°	28234	8083	2353
40°	27564	4855	1373
45°	26419	2899	1027
50°	24918	1896	862
55°	22552	1438	752
60°	19380	1225	686
65°	15589	1118	648
70°	11744	1197	644
75°	8639	1137	663
80°	6320	1134	725
85°	4733	1372	940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2046.3	8.4
10°-20°	5090.7	20.9
20°-30°	5638.7	23.2
30°-40°	4517.6	18.6
40°-50°	3225.0	13.3
50°-60°	2071.4	8.5
60°-70°	1122.6	4.6
70°-80°	479.8	2.0
80°-90°	133.1	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°	12775.6	52.5
0°-40°	17293.2	71.1
0°-60°	22589.5	92.9
0°-90°	24325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	24325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22219	22219	22219	22219	22219	
5°	22002	22083	21783	21714	21668	###
15°	21212	20548	18329	16198	15367	5985
25°	19606	17288	11539	7518	6174	9032
35°	17189	12433	4921	1985	1432	10747
45°	13884	7177	1524	648	540	10702
55°	9614	3209	613	377	321	8568
65°	4896	1318	351	242	204	4903
75°	1662	482	219	152	128	1847
85°	307	128	89	74	61	374
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	22219.1	22219.1	22219.1	22219.1	22219.1
2.5°	22072.8	22210.9	22062.3	22154.8	22249.6
5°	22001.5	22083.4	21782.6	21713.6	21667.9
7.5°	21877.4	21854.0	21288.7	20922.4	20745.7
10°	21713.6	21524.0	20558.5	19753.3	19399.9
12.5°	21479.5	21088.6	19569.6	18155.9	17556.7
15°	21211.5	20548.0	18329.1	16198.0	15367.1
17.5°	20890.9	19916.0	16846.3	14098.5	13001.9
20°	20511.7	19153.0	15172.8	11867.9	10595.8
22.5°	20088.0	18272.9	13381.1	9644.4	8279.8
25°	19605.9	17287.5	11539.1	7517.9	6174.5
27.5°	19085.1	16193.3	9707.6	5617.4	4392.1
30°	18507.0	15009.0	7958.0	4050.4	3032.2
32.5°	17876.2	13749.7	6332.4	2848.5	2073.8
35°	17189.2	12433.2	4921.1	1984.8	1432.4
37.5°	16485.9	11089.7	3716.8	1403.2	1027.5
40°	15693.6	9750.9	2764.2	1027.5	781.8
42.5°	14842.8	8437.8	2045.7	791.1	633.1
45°	13884.3	7177.4	1523.7	648.3	539.5
47.5°	12955.1	6002.4	1157.4	552.4	469.3
50°	11904.2	4942.1	905.8	482.2	411.9
52.5°	10788.9	4009.4	734.9	424.8	362.8
55°	9613.9	3208.9	613.2	376.8	320.7
57.5°	8423.7	2541.9	524.3	335.9	285.6
60°	7202.0	2032.8	455.2	300.8	255.1
62.5°	6009.4	1625.5	397.9	270.3	228.2
65°	4896.5	1317.7	351.1	242.3	203.6
67.5°	3867.8	1041.6	327.7	217.7	183.7
70°	2985.4	811.0	304.3	194.3	163.8
72.5°	2262.2	622.6	269.2	173.2	145.1
75°	1661.8	482.2	218.8	152.1	127.6
77.5°	1189.0	371.0	177.9	132.2	110.0
80°	815.7	276.2	146.3	113.5	93.6
82.5°	530.1	195.4	118.2	93.6	77.2
85°	306.6	127.6	88.9	73.7	60.9
87.5°	132.2	70.2	60.9	55.0	46.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)