

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

Luminaire Equipment: Sample No. Condition Description

Summary

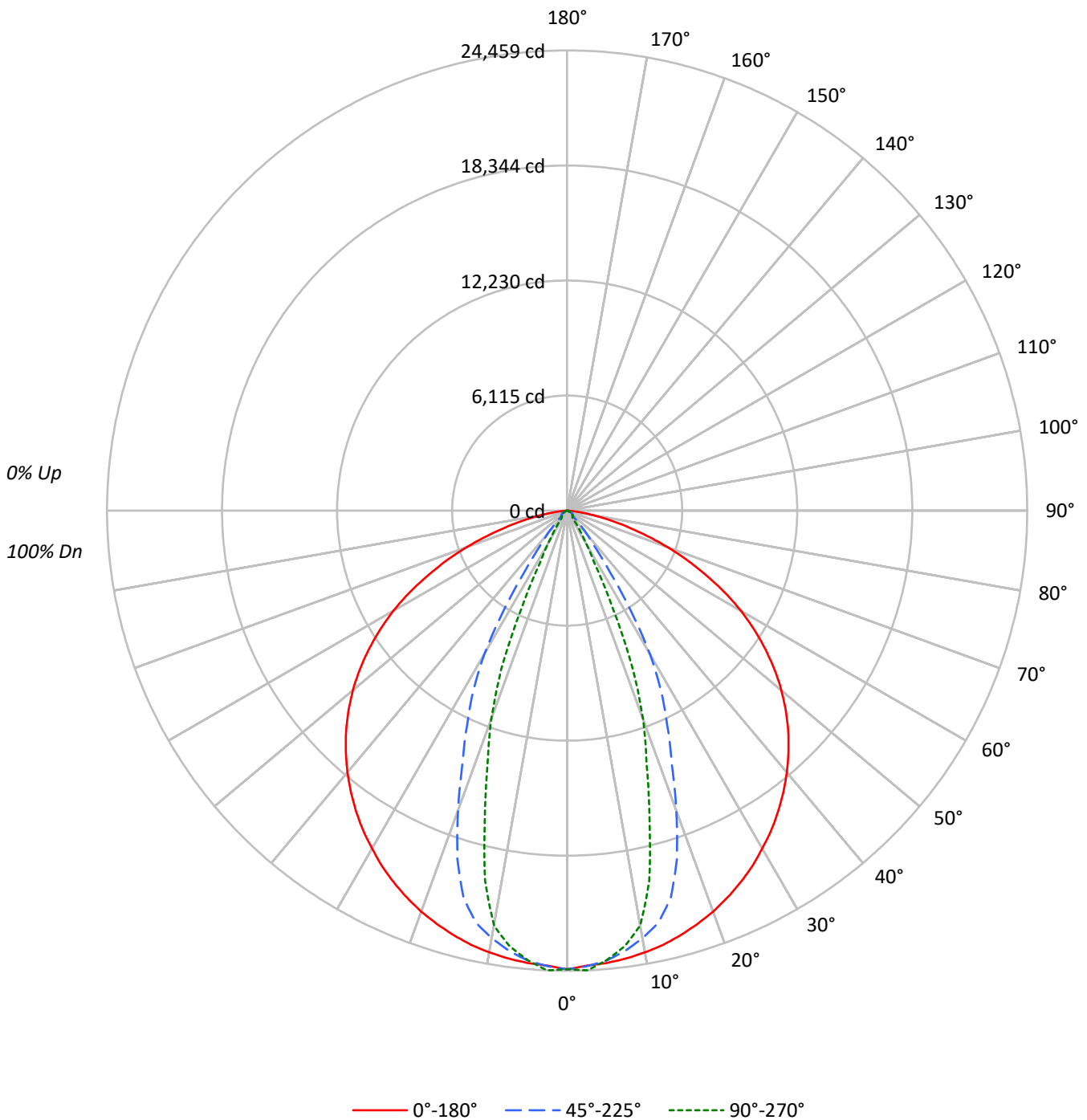
Lumens per Lamp: N/A
Luminaire Lumens: 26072.0 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	32800	32800	32800
5°	32599	32429	32405
10°	32577	31532	30602
15°	32540	29652	23530
20°	32476	24265	16878
25°	32374	18696	8576
30°	32221	13644	3120
35°	32106	6266	1086
40°	31909	2844	749
45°	31625	1061	760
50°	31120	770	799
55°	30199	810	609
60°	28698	866	537
65°	26026	659	437
70°	22314	476	402
75°	17055	422	383
80°	10671	396	415
85°	3370	462	559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2269.6	8.7
10°-20°	5717.3	21.9
20°-30°	6226.3	23.9
30°-40°	4657.6	17.9
40°-50°	3348.9	12.8
50°-60°	2056.8	7.9
60°-70°	1183.5	4.5
70°-80°	528.2	2.0
80°-90°	83.8	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°	14213.2	54.5
0°-40°	18870.8	72.4
0°-60°	24276.5	93.1
0°-90°	26072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24378	24378	24378	24378	24378	
5°	24136	24250	24010	24032	23992	###
15°	23360	22912	21287	18282	16892	6594
25°	21807	20243	12593	8080	5777	10052
35°	19547	14019	3815	1122	661	12227
45°	16620	7876	558	413	399	12804
55°	12874	1637	346	334	260	11478
65°	8175	180	207	172	137	8092
75°	3281	108	81	84	74	3560
85°	218	21	30	39	36	435
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	24378.0	24378.0	24378.0	24378.0	24378.0
2.5°	24208.4	24366.8	24233.3	24353.1	24459.1
5°	24136.0	24249.5	24010.0	24032.5	23992.5
7.5°	24011.3	24038.7	23605.8	23438.7	23357.6
10°	23844.1	23770.5	23079.4	22681.5	22398.3
12.5°	23633.3	23390.0	22424.5	21003.6	20156.6
15°	23360.1	22912.2	21286.8	18281.6	16892.0
17.5°	23034.5	22413.2	19403.1	15236.6	14034.0
20°	22681.5	21861.9	16946.8	12955.0	11787.3
22.5°	22264.8	21157.0	14524.3	10774.4	9171.4
25°	21807.0	20242.7	12593.2	8079.8	5777.0
27.5°	21313.0	19036.4	10805.6	4954.9	3123.7
30°	20739.1	17568.1	8782.2	2780.6	2008.4
32.5°	20179.0	15856.6	6273.5	1852.5	1283.6
35°	19546.6	14019.0	3814.8	1121.5	661.2
37.5°	18876.7	12348.7	2387.7	610.0	456.6
40°	18166.9	10764.4	1619.2	432.9	426.6
42.5°	17408.4	9331.1	1014.2	411.7	425.4
45°	16620.0	7876.5	557.6	412.9	399.2
47.5°	15764.2	6297.2	389.2	390.5	389.2
50°	14867.3	4517.1	368.0	385.5	381.7
52.5°	13900.5	2804.3	369.3	376.7	338.1
55°	12873.9	1636.7	345.5	334.3	259.5
57.5°	11794.8	1020.4	338.1	275.7	233.3
60°	10664.6	538.9	321.8	248.2	199.6
62.5°	9460.8	265.7	258.2	212.1	163.4
65°	8174.7	179.6	207.1	172.2	137.2
67.5°	6932.2	162.2	155.9	141.0	119.8
70°	5672.2	148.4	121.0	123.5	102.3
72.5°	4436.0	134.7	97.3	106.0	86.1
75°	3280.8	108.5	81.1	83.6	73.6
77.5°	2282.9	84.8	63.6	71.1	68.6
80°	1377.2	53.6	51.1	58.6	53.6
82.5°	667.4	34.9	39.9	46.2	42.4
85°	218.3	21.2	29.9	38.7	36.2
87.5°	27.4	12.5	24.9	33.7	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)