

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-LD5-36SE-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-LD5-36SE-N-CL-UNV-L840-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

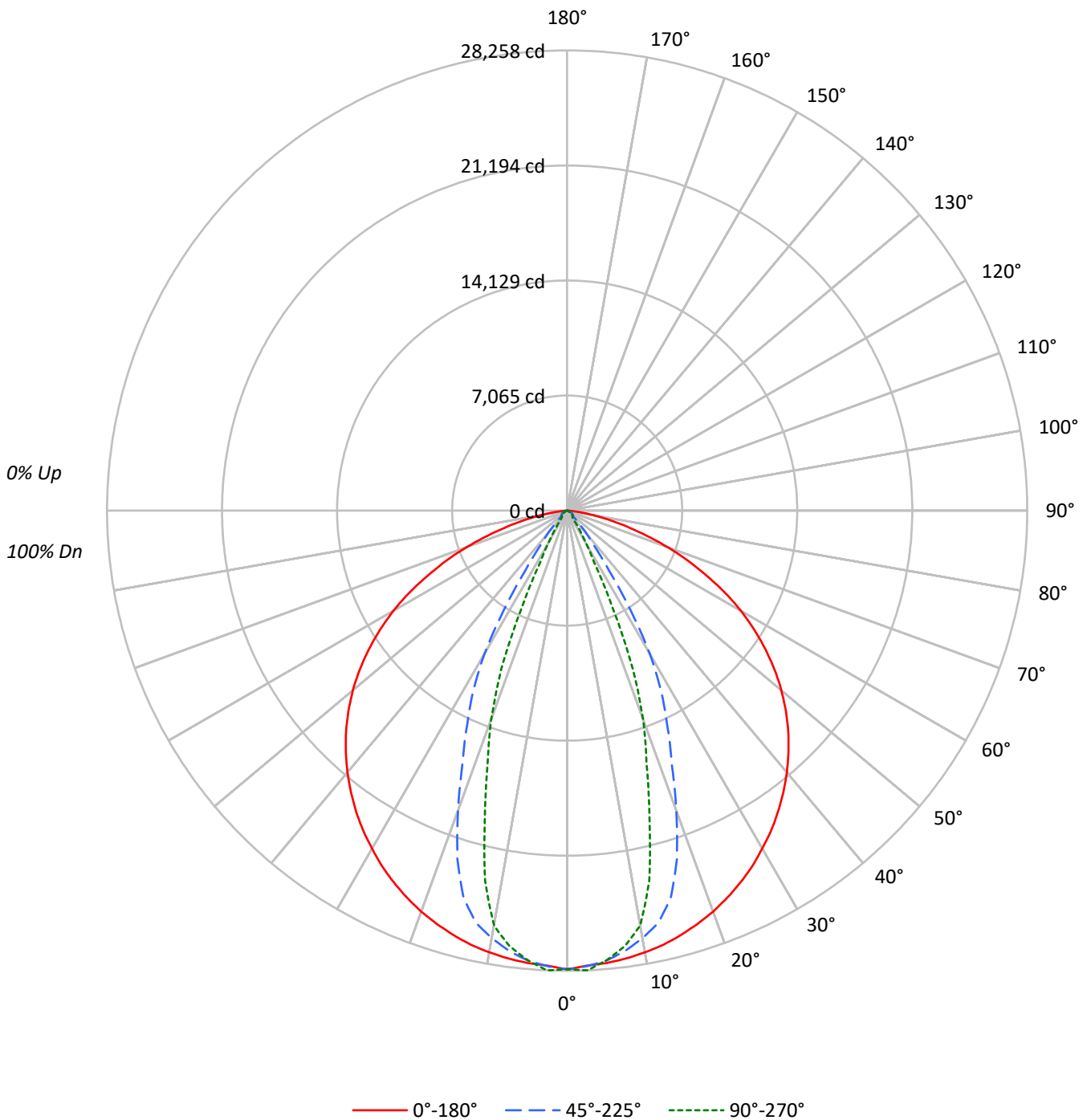
Lumens per Lamp: N/A
Luminaire Lumens: 30122.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.63 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 232
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				
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°	37896	37896	37896
5°	37663	37466	37439
10°	37637	36430	35355
15°	37594	34258	27185
20°	37521	28035	19499
25°	37403	21600	9909
30°	37226	15764	3605
35°	37093	7239	1255
40°	36865	3286	866
45°	36537	1226	878
50°	35955	890	923
55°	34891	936	703
60°	33156	1001	621
65°	30068	762	505
70°	25781	550	465
75°	19705	487	442
80°	12328	458	480
85°	3893	534	645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2622.1	8.7
10°-20°	6605.4	21.9
20°-30°	7193.5	23.9
30°-40°	5381.1	17.9
40°-50°	3869.2	12.8
50°-60°	2376.2	7.9
60°-70°	1367.3	4.5
70°-80°	610.3	2.0
80°-90°	96.8	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°	16421.0	54.5
0°-40°	21802.2	72.4
0°-60°	28047.6	93.1
0°-90°	30122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28165	28165	28165	28165	28165	
5°	27885	28016	27740	27766	27720	###
15°	26989	26471	24594	21122	19516	7619
25°	25194	23387	14549	9335	6674	11614
35°	22583	16197	4407	1296	764	14126
45°	19202	9100	644	477	461	14792
55°	14874	1891	399	386	300	13261
65°	9444	208	239	199	158	9349
75°	3790	125	94	97	85	4113
85°	252	24	35	45	42	503
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28164.9	28164.9	28164.9	28164.9	28164.9
2.5°	27968.9	28151.9	27997.7	28136.0	28258.5
5°	27885.3	28016.4	27739.7	27765.6	27719.5
7.5°	27741.1	27772.8	27272.7	27079.6	26985.9
10°	27548.0	27463.0	26664.5	26204.8	25877.6
12.5°	27304.4	27023.4	25907.9	24266.3	23287.7
15°	26988.8	26471.4	24593.5	21121.5	19515.9
17.5°	26612.6	25894.9	22417.2	17603.4	16214.0
20°	26204.8	25257.9	19579.4	14967.4	13618.4
22.5°	25723.4	24443.6	16780.5	12448.1	10596.1
25°	25194.5	23387.1	14549.4	9335.0	6674.4
27.5°	24623.7	21993.4	12484.1	5724.6	3608.9
30°	23960.7	20297.1	10146.4	3212.5	2320.4
32.5°	23313.6	18319.7	7248.0	2140.3	1483.0
35°	22582.9	16196.7	4407.3	1295.7	763.9
37.5°	21809.0	14266.9	2758.5	704.8	527.5
40°	20988.9	12436.5	1870.7	500.1	492.9
42.5°	20112.6	10780.5	1171.7	475.6	491.5
45°	19201.7	9100.0	644.2	477.1	461.2
47.5°	18213.1	7275.4	449.7	451.1	449.7
50°	17176.8	5218.8	425.2	445.3	441.0
52.5°	16059.8	3239.9	426.6	435.3	390.6
55°	14873.7	1890.9	399.2	386.3	299.8
57.5°	13627.0	1178.9	390.6	318.5	269.5
60°	12321.2	622.6	371.8	286.8	230.6
62.5°	10930.4	307.0	298.3	245.0	188.8
65°	9444.5	207.5	239.2	198.9	158.5
67.5°	8009.0	187.4	180.2	162.9	138.4
70°	6553.4	171.5	139.8	142.7	118.2
72.5°	5125.1	155.7	112.4	122.5	99.4
75°	3790.5	125.4	93.7	96.6	85.0
77.5°	2637.5	98.0	73.5	82.2	79.3
80°	1591.1	62.0	59.1	67.7	62.0
82.5°	771.1	40.4	46.1	53.3	49.0
85°	252.2	24.5	34.6	44.7	41.8
87.5°	31.7	14.4	28.8	38.9	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)