

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-W-CLWG-UNV-L740-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 (P33385)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-CLWG-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
WIDE DISTRIBUTION WITH CLEAR LENS, WIREGUARD & DOORFRAME
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31489.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.3 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

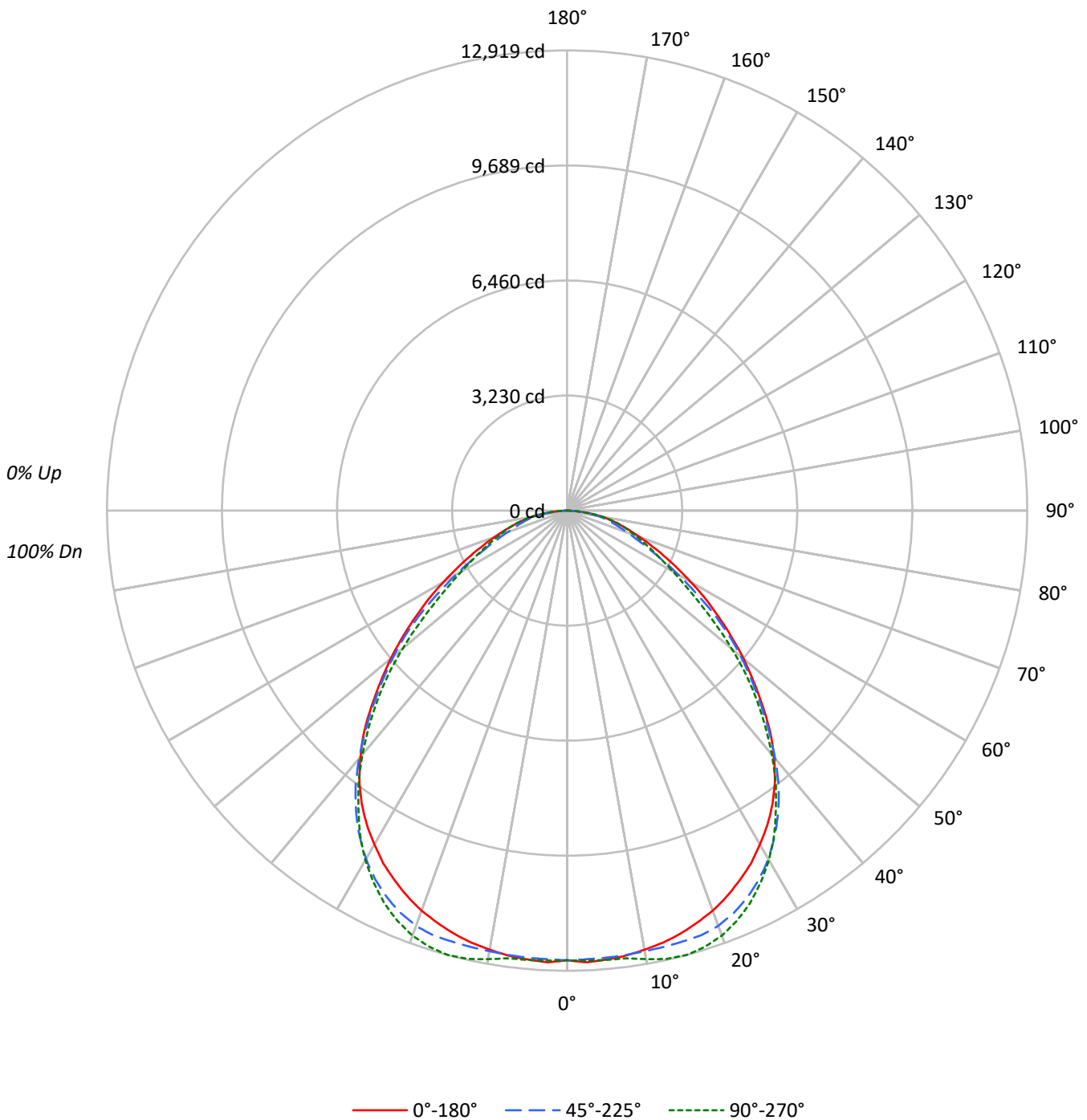
Input Watts (W): 232
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75					73				
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65					63				
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57					55				
5	79	67	58	52	77	65	57	52	63	56	51	61	55	50	60	54	50					48				
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	43	37	33	42	37	32					31				
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16988	16988	16988
5°	17088	17018	17102
10°	17104	17161	17469
15°	17125	17447	17996
20°	17113	17766	18181
25°	17009	17782	18044
30°	16813	17547	17603
35°	16513	16978	16775
40°	15862	15959	15707
45°	14780	14625	14327
50°	13532	13313	12632
55°	12154	11704	10680
60°	10779	9684	9219
65°	9497	8046	8367
70°	8494	6982	7969
75°	7957	6789	8059
80°	7747	6864	7671
85°	6184	5429	5630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1202.8	3.8
10°-20°	3542.9	11.3
20°-30°	5450.2	17.3
30°-40°	6360.7	20.2
40°-50°	5910.8	18.8
50°-60°	4381.3	13.9
60°-70°	2678.4	8.5
70°-80°	1525.6	4.8
80°-90°	436.3	1.4
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°	10195.9	32.4
0°-40°	16556.6	52.6
0°-60°	26848.7	85.3
0°-90°	31489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	31489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12626	12626	12626	12626	12626	
5°	12652	12594	12600	12590	12662	###
15°	12294	12288	12525	12773	12919	3470
25°	11457	11545	11978	12079	12154	5278
35°	10053	10132	10337	10252	10213	6264
45°	7767	7813	7686	7565	7530	5985
55°	5181	5051	4989	4634	4553	4650
65°	2983	2710	2527	2596	2628	2985
75°	1531	1436	1306	1488	1550	1638
85°	401	391	352	365	365	462
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12626.2	12626.2	12626.2	12626.2	12626.2
2.5°	12694.6	12622.9	12609.9	12580.6	12645.7
5°	12652.2	12593.6	12600.1	12590.4	12662.0
7.5°	12603.4	12561.0	12587.1	12583.8	12678.3
10°	12518.7	12495.9	12561.0	12632.7	12785.8
12.5°	12424.3	12401.5	12544.8	12727.1	12893.2
15°	12294.0	12287.5	12525.2	12772.7	12919.3
17.5°	12131.2	12140.9	12502.4	12714.1	12844.4
20°	11952.0	11968.3	12408.0	12580.6	12697.8
22.5°	11720.8	11776.2	12225.6	12368.9	12460.1
25°	11457.0	11545.0	11978.1	12079.1	12154.0
27.5°	11173.7	11261.6	11672.0	11724.1	11766.4
30°	10822.0	10945.7	11294.2	11300.7	11330.0
32.5°	10463.7	10574.5	10841.5	10812.2	10818.7
35°	10053.4	10131.6	10336.7	10252.1	10213.0
37.5°	9581.2	9623.5	9753.8	9626.8	9620.3
40°	9030.8	9086.2	9086.2	8910.3	8942.9
42.5°	8444.6	8464.1	8382.7	8216.6	8242.7
45°	7767.2	7812.8	7685.8	7565.3	7529.5
47.5°	7096.3	7141.9	7008.4	6868.4	6806.5
50°	6464.5	6441.7	6360.3	6122.6	6034.6
52.5°	5809.9	5738.3	5705.7	5357.3	5256.3
55°	5181.4	5051.1	4989.2	4634.3	4552.9
57.5°	4598.4	4364.0	4246.7	3969.9	3937.3
60°	4005.7	3741.9	3598.6	3419.5	3426.0
62.5°	3468.4	3191.6	3019.0	2966.8	2989.6
65°	2983.1	2709.6	2527.2	2595.6	2628.1
67.5°	2543.5	2318.8	2113.6	2273.2	2305.7
70°	2159.2	1980.1	1774.9	2009.4	2025.7
72.5°	1840.0	1693.5	1520.9	1742.3	1778.2
75°	1530.6	1436.2	1305.9	1488.3	1550.2
77.5°	1260.3	1185.4	1110.5	1221.3	1289.6
80°	999.8	924.9	885.8	944.4	990.0
82.5°	706.7	657.9	618.8	661.1	683.9
85°	400.6	390.8	351.7	364.7	364.7
87.5°	91.2	104.2	117.2	107.5	91.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)