

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-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 (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-L750-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: 34009.0 lumens
Efficiency: N/A
Efficacy: 146.6 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

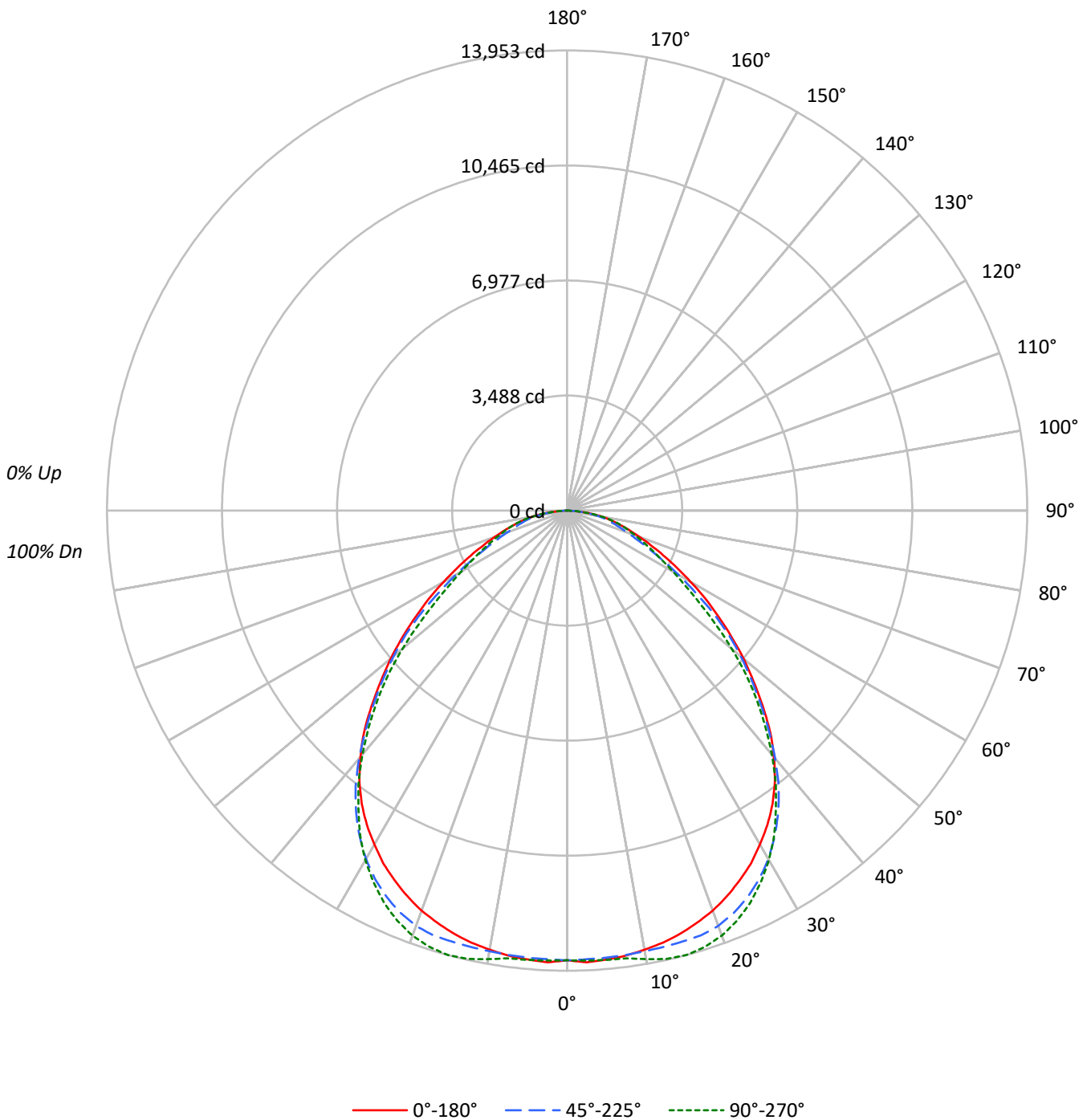
Input Watts (W): 232
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	18348	18348	18348
5°	18456	18380	18470
10°	18472	18535	18866
15°	18495	18843	19436
20°	18483	19188	19636
25°	18370	19206	19488
30°	18159	18951	19011
35°	17835	18337	18118
40°	17131	17236	16964
45°	15962	15795	15474
50°	14615	14379	13643
55°	13127	12640	11535
60°	11642	10459	9957
65°	10258	8690	9037
70°	9174	7541	8607
75°	8594	7332	8703
80°	8367	7413	8285
85°	6678	5865	6081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1299.0	3.8
10°-20°	3826.4	11.3
20°-30°	5886.4	17.3
30°-40°	6869.8	20.2
40°-50°	6383.9	18.8
50°-60°	4731.9	13.9
60°-70°	2892.7	8.5
70°-80°	1647.7	4.8
80°-90°	471.2	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°	11011.8	32.4
0°-40°	17881.6	52.6
0°-60°	28997.4	85.3
0°-90°	34009.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34009.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13637	13637	13637	13637	13637	
5°	13665	13602	13608	13598	13675	###
15°	13278	13271	13528	13795	13953	3748
25°	12374	12469	12937	13046	13127	5700
35°	10858	10942	11164	11072	11030	6765
45°	8389	8438	8301	8171	8132	6464
55°	5596	5455	5388	5005	4917	5022
65°	3222	2926	2729	2803	2838	3224
75°	1653	1551	1410	1607	1674	1769
85°	433	422	380	394	394	499
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13636.6	13636.6	13636.6	13636.6	<i>13636.6</i>
2.5°	13710.5	13633.1	13619.0	13587.4	<i>13657.7</i>
5°	13664.8	13601.5	13608.5	13597.9	<i>13675.3</i>
7.5°	13612.0	13566.3	13594.4	13590.9	<i>13692.9</i>
10°	13520.6	13495.9	13566.3	13643.7	<i>13809.0</i>
12.5°	13418.6	13393.9	13548.7	13745.7	<i>13925.0</i>
15°	<i>13277.9</i>	<i>13270.8</i>	<i>13527.6</i>	<i>13794.9</i>	<i>13953.2</i>
17.5°	13102.0	13112.5	13503.0	13731.6	<i>13872.3</i>
20°	12908.5	12926.1	13401.0	13587.4	<i>13714.0</i>
22.5°	12658.8	12718.6	13204.0	13358.8	<i>13457.2</i>
25°	12373.9	12468.9	12936.7	13045.7	<i>13126.6</i>
27.5°	12067.9	12162.9	12606.1	12662.3	<i>12708.1</i>
30°	11688.0	11821.7	12198.0	12205.1	<i>12236.7</i>
32.5°	11301.1	11420.7	11709.1	11677.5	<i>11684.5</i>
35°	10857.9	10942.4	11164.0	11072.5	<i>11030.3</i>
37.5°	10347.9	10393.7	10534.4	10397.2	<i>10390.1</i>
40°	9753.5	9813.3	9813.3	9623.4	<i>9658.5</i>
42.5°	9120.4	9141.5	9053.6	8874.2	<i>8902.3</i>
45°	8388.8	8438.0	8300.9	8170.7	<i>8132.0</i>
47.5°	7664.2	7713.5	7569.3	7418.0	<i>7351.2</i>
50°	6981.9	6957.2	6869.3	6612.6	<i>6517.6</i>
52.5°	6274.9	6197.5	6162.3	5786.0	<i>5676.9</i>
55°	5596.0	5455.4	5388.5	5005.1	<i>4917.2</i>
57.5°	4966.4	4713.2	4586.6	4287.6	<i>4252.4</i>
60°	4326.3	4041.4	3886.6	3693.2	<i>3700.2</i>
62.5°	3745.9	3447.0	3260.6	3204.3	<i>3228.9</i>
65°	3221.9	2926.4	2729.4	2803.3	<i>2838.5</i>
67.5°	2747.0	2504.3	2282.7	2455.1	<i>2490.3</i>
70°	2332.0	2138.5	1916.9	2170.2	<i>2187.8</i>
72.5°	1987.3	1829.0	1642.6	1881.8	<i>1920.5</i>
75°	1653.1	1551.1	1410.4	1607.4	<i>1674.2</i>
77.5°	1361.2	1280.3	1199.4	1319.0	<i>1392.9</i>
80°	1079.8	998.9	956.7	1020.0	<i>1069.3</i>
82.5°	763.3	710.5	668.3	714.0	<i>738.6</i>
85°	432.6	422.1	379.9	393.9	<i>393.9</i>
87.5°	98.5	112.6	126.6	116.1	<i>98.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)