

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-CLI-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 (P23769)
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-CLI-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

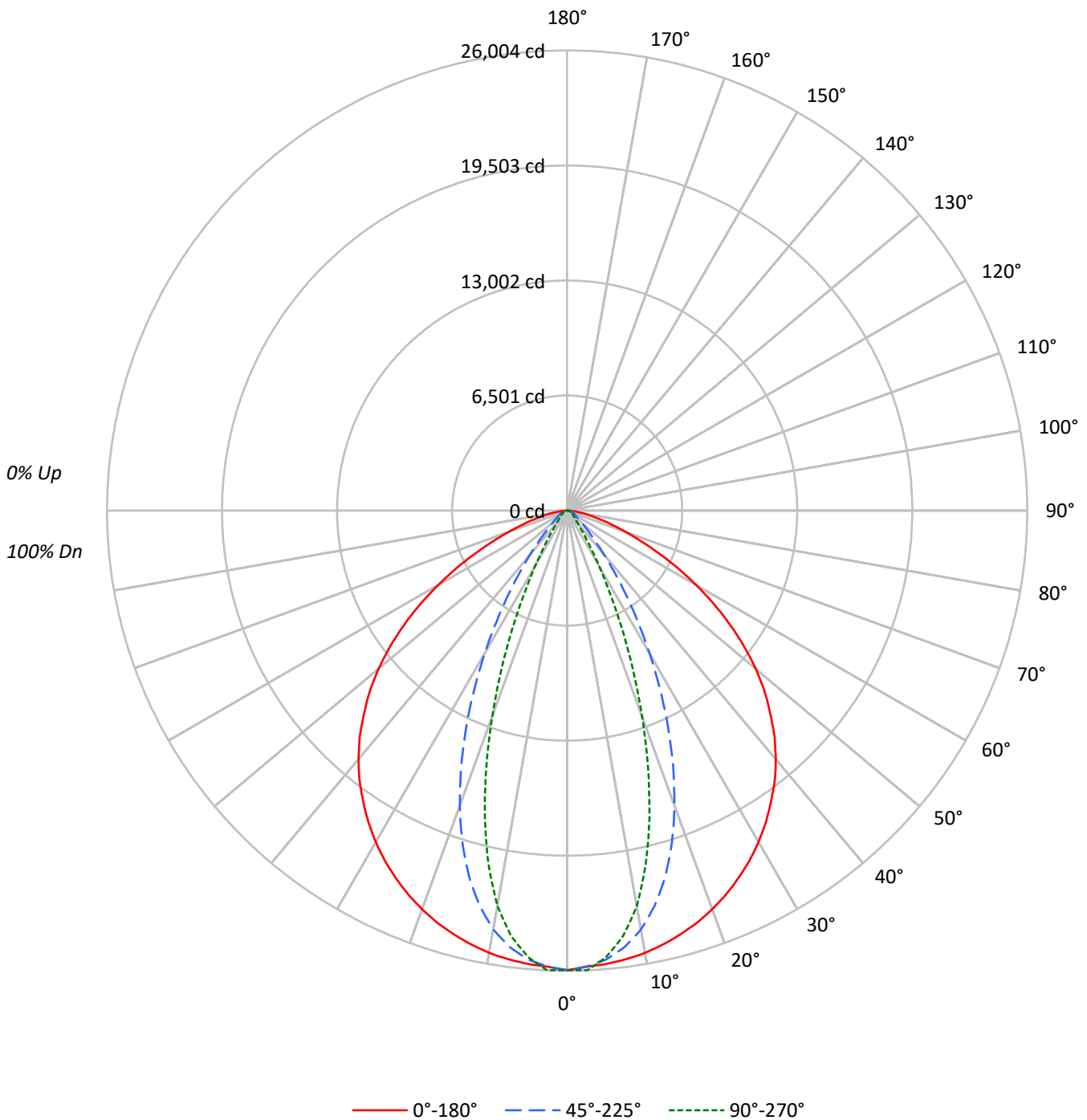
Lumens per Lamp: N/A
Luminaire Lumens: 28430.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72					72			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65					65			
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60					60			
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50					50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46					46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43					43			
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40					40			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34941	34941	34941
5°	34730	34385	34204
10°	34672	32828	30978
15°	34533	29840	25018
20°	34326	25391	17732
25°	34018	20022	10713
30°	33605	14450	5506
35°	32999	9447	2750
40°	32216	5674	1605
45°	30878	3389	1200
50°	29123	2216	1008
55°	26358	1681	879
60°	22651	1432	802
65°	18220	1306	758
70°	13726	1399	753
75°	10097	1330	775
80°	7387	1325	848
85°	5533	1606	1098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2391.6	8.4
10°-20°	5949.7	20.9
20°-30°	6590.2	23.2
30°-40°	5279.9	18.6
40°-50°	3769.2	13.3
50°-60°	2421.0	8.5
60°-70°	1312.0	4.6
70°-80°	560.8	2.0
80°-90°	155.5	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°	14931.5	52.5
0°-40°	20211.5	71.1
0°-60°	26401.7	92.9
0°-90°	28430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25969	25969	25969	25969	25969	
5°	25714	25810	25459	25378	25324	###
15°	24791	24016	21422	18932	17960	6995
25°	22914	20205	13486	8787	7216	10556
35°	20090	14531	5752	2320	1674	12561
45°	16227	8389	1781	758	630	12508
55°	11236	3750	717	440	375	10014
65°	5723	1540	410	283	238	5731
75°	1942	564	256	178	149	2158
85°	358	149	104	86	71	438
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25968.8	25968.8	25968.8	25968.8	25968.8
2.5°	25797.8	25959.2	25785.5	25893.5	26004.3
5°	25714.3	25810.1	25458.6	25377.9	25324.5
7.5°	25569.4	25542.0	24881.4	24453.2	24246.7
10°	25377.9	25156.3	24027.9	23086.8	22673.8
12.5°	25104.3	24647.5	22872.1	21219.8	20519.5
15°	24791.1	24015.6	21422.2	18931.5	17960.4
17.5°	24416.3	23277.0	19689.3	16477.7	15196.1
20°	23973.2	22385.2	17733.3	13870.7	12383.9
22.5°	23478.0	21356.6	15639.2	11271.9	9677.1
25°	22914.5	20204.9	13486.4	8786.6	7216.4
27.5°	22305.8	18926.0	11345.8	6565.4	5133.3
30°	21630.1	17541.8	9300.9	4733.9	3543.9
32.5°	20892.9	16070.1	7401.1	3329.2	2423.7
35°	20090.0	14531.3	5751.5	2319.8	1674.2
37.5°	19268.0	12961.1	4344.1	1640.0	1200.9
40°	18342.0	11396.4	3230.7	1200.9	913.7
42.5°	17347.6	9861.7	2390.9	924.6	740.0
45°	16227.4	8388.6	1780.9	757.8	630.5
47.5°	15141.4	7015.4	1352.7	645.6	548.5
50°	13913.1	5776.2	1058.7	563.5	481.5
52.5°	12609.6	4686.0	859.0	496.5	424.0
55°	11236.3	3750.5	716.7	440.4	374.8
57.5°	9845.3	2970.8	612.8	392.6	333.7
60°	8417.3	2375.8	532.1	351.5	298.2
62.5°	7023.6	1899.9	465.0	316.0	266.7
65°	5722.8	1540.1	410.3	283.1	238.0
67.5°	4520.5	1217.3	383.0	254.4	214.7
70°	3489.2	947.9	355.6	227.1	191.5
72.5°	2643.9	727.7	314.6	202.4	169.6
75°	1942.3	563.5	255.8	177.8	149.1
77.5°	1389.7	433.6	207.9	154.6	128.6
80°	953.3	322.8	171.0	132.7	109.4
82.5°	619.6	228.4	138.1	109.4	90.3
85°	358.4	149.1	104.0	86.2	71.1
87.5°	154.6	82.1	71.1	64.3	54.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)