

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-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 (P23767)
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-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

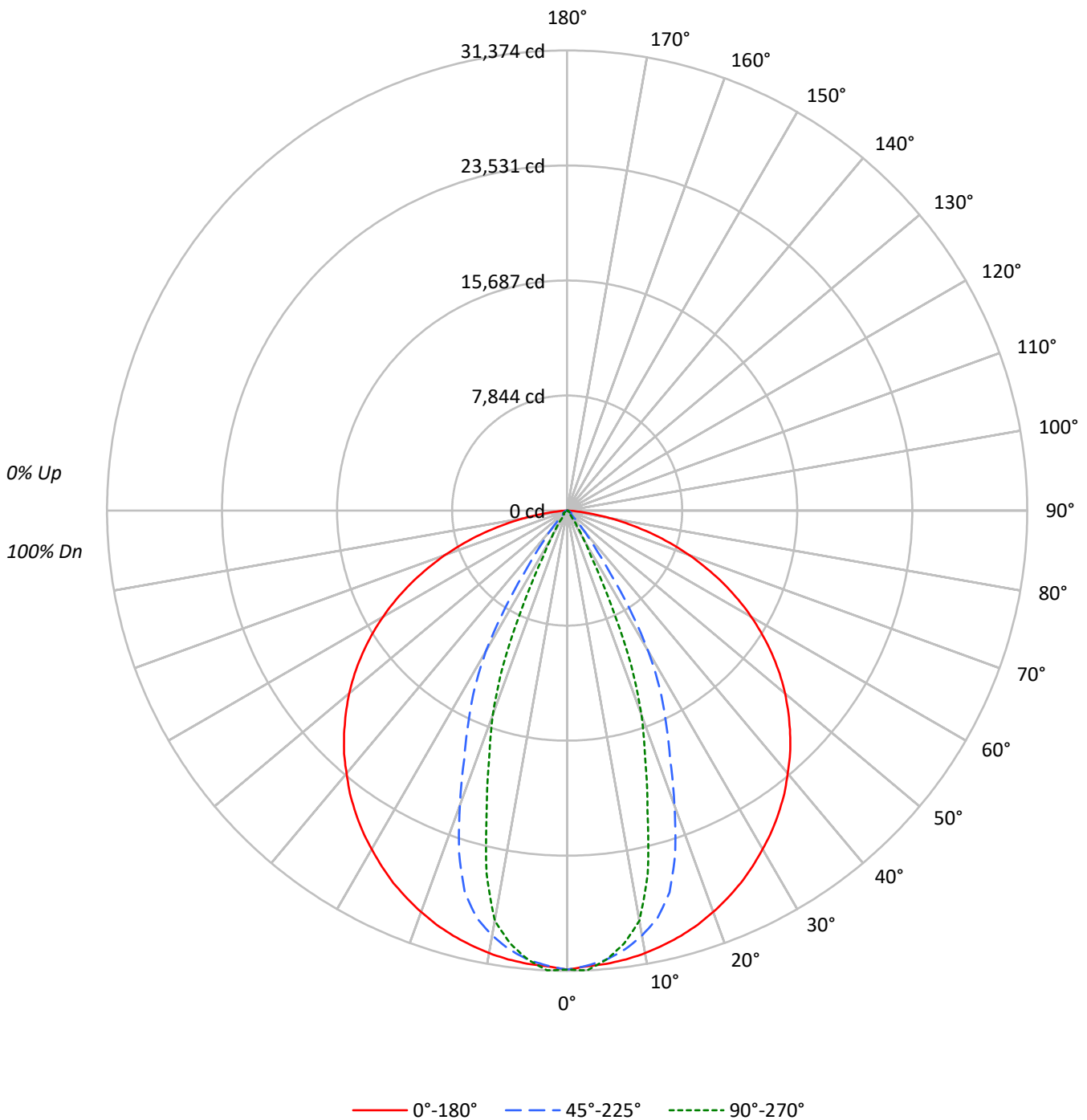
Lumens per Lamp: N/A
Luminaire Lumens: 33266.0 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.62 / 0.77
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	76	81	77	74	73					73			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66					66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60					60			
6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55					55			
7	76	66	58	54	75	65	58	53	63	57	53	62	57	53	61	56	52	51					51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47					47			
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44					44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41					41			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42111	42111	42111
5°	41886	41516	41498
10°	41860	40186	38776
15°	41801	37543	29511
20°	41704	30605	21242
25°	41597	23665	10464
30°	41413	17199	3393
35°	41316	7630	873
40°	41099	3099	588
45°	40916	870	626
50°	40597	617	695
55°	40012	734	297
60°	39024	817	180
65°	37419	521	213
70°	34763	463	264
75°	30411	348	364
80°	22738	427	519
85°	11263	551	690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2904.5	8.7
10°-20°	7262.7	21.8
20°-30°	7866.7	23.6
30°-40°	5825.6	17.5
40°-50°	4195.9	12.6
50°-60°	2598.1	7.8
60°-70°	1597.8	4.8
70°-80°	842.3	2.5
80°-90°	172.4	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°	18033.9	54.2
0°-40°	23859.5	71.7
0°-60°	30653.5	92.1
0°-90°	33266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31298	31298	31298	31298	31298	
5°	31012	31127	30738	30761	30725	###
15°	30009	29312	26952	22920	21186	8471
25°	28020	25666	15940	10028	7048	12911
35°	25154	17733	4645	1093	532	15736
45°	21503	9990	457	330	329	16583
55°	17057	2058	313	283	127	15227
65°	11753	217	164	104	67	11597
75°	5850	51	67	88	70	6179
85°	730	19	36	54	45	###
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31298.2	31298.2	31298.2	31298.2	31298.2
2.5°	31097.2	31295.2	31061.4	31235.6	31374.1
5°	31012.3	31126.9	30738.3	30760.7	30724.9
7.5°	30863.4	30836.6	30183.0	29897.1	29772.0
10°	30638.6	30461.4	29413.2	28816.2	28381.4
12.5°	30348.2	29952.2	28452.9	26554.5	25375.3
15°	30008.8	29312.0	26952.1	22920.1	21185.6
17.5°	29603.8	28616.7	24498.4	19209.8	17661.3
20°	29125.9	27840.9	21374.6	16343.7	14835.4
22.5°	28592.8	26897.0	18340.3	13583.2	11431.8
25°	28019.6	25665.7	15940.2	10027.7	7048.5
27.5°	27357.0	24083.0	13688.9	5906.5	3597.2
30°	26655.8	22177.2	11070.0	3177.3	2184.2
32.5°	25948.5	20016.8	7833.1	1984.7	1238.8
35°	25153.5	17732.8	4645.4	1092.9	531.5
37.5°	24324.2	15639.4	2745.5	497.3	341.0
40°	23399.6	13726.2	1764.3	330.5	335.0
42.5°	22506.2	11942.5	993.1	326.1	332.0
45°	21502.7	9990.5	457.1	330.5	329.0
47.5°	20464.9	7967.1	296.3	333.5	333.5
50°	19394.4	5696.5	294.8	341.0	332.0
52.5°	18264.3	3554.0	306.7	339.5	272.5
55°	17056.8	2057.7	312.7	282.9	126.6
57.5°	15806.2	1213.5	315.6	162.3	71.5
60°	14501.9	671.5	303.7	120.6	67.0
62.5°	13157.4	320.1	239.7	113.2	65.5
65°	11753.4	217.4	163.8	104.2	67.0
67.5°	10295.7	168.2	129.5	98.3	68.5
70°	8836.6	125.1	117.6	98.3	67.0
72.5°	7353.7	84.9	98.3	99.8	67.0
75°	5849.9	50.6	67.0	87.8	70.0
77.5°	4359.5	31.3	52.1	90.8	84.9
80°	2934.6	26.8	55.1	84.9	67.0
82.5°	1722.7	23.8	53.6	65.5	53.6
85°	729.6	19.4	35.7	53.6	44.7
87.5°	137.0	16.4	28.3	43.2	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)