

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-FLI-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 (P26703)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-36SE-W-FLI-UNV-L740-ED3-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

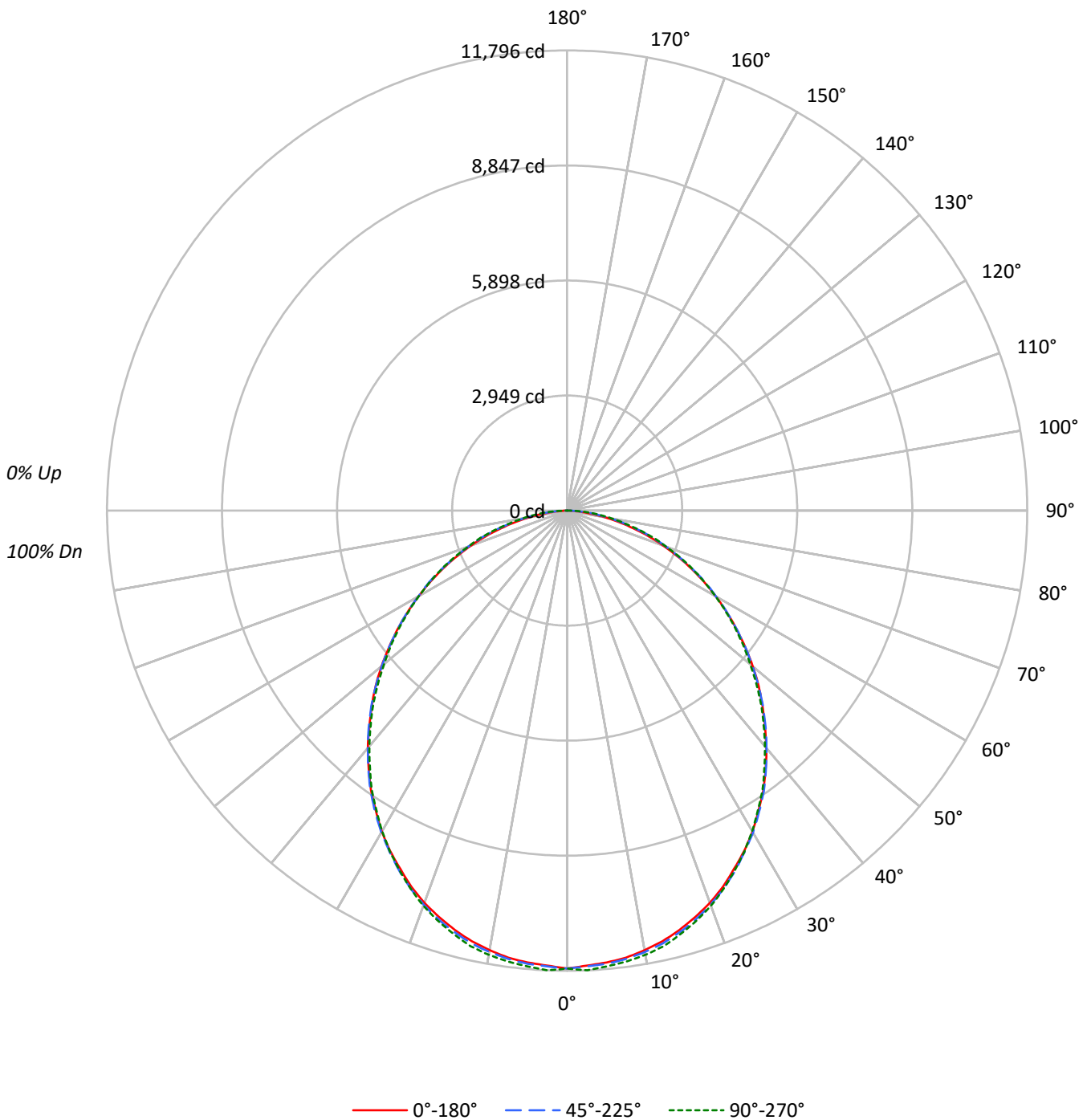
Lumens per Lamp: N/A
Luminaire Lumens: 30664.0 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15795	15795	15795
5°	15705	15749	15839
10°	15634	15697	15799
15°	15496	15580	15656
20°	15321	15394	15439
25°	15037	15122	15100
30°	14760	14799	14739
35°	14394	14431	14339
40°	13962	13962	13854
45°	13473	13510	13373
50°	13010	12989	12826
55°	12447	12449	12337
60°	11844	11858	11812
65°	11163	11275	11304
70°	10311	10593	10605
75°	9112	9702	9853
80°	7473	8497	8977
85°	5186	7134	8068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1110.2	3.6
10°-20°	3158.3	10.3
20°-30°	4693.5	15.3
30°-40°	5487.9	17.9
40°-50°	5471.6	17.8
50°-60°	4747.3	15.5
60°-70°	3506.5	11.4
70°-80°	1963.2	6.4
80°-90°	523.8	1.7
90°-100°	1.6	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°	8962.1	29.2
0°-40°	14450.0	47.1
0°-60°	24668.9	80.4
0°-90°	30662.4	100.0
90°-120°	1.6	0.0
90°-150°	1.6	0.0
90°-180°	2.0	0.0
0°-180°	30664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11739	11739	11739	11739	11739	
5°	11628	11701	11661	11712	11727	###
15°	11125	11202	11185	11239	11240	3137
25°	10129	10210	10186	10209	10171	4670
35°	8763	8840	8786	8784	8730	5474
45°	7081	7156	7100	7071	7028	5466
55°	5306	5343	5307	5298	5259	4745
65°	3506	3541	3542	3559	3550	3468
75°	1753	1805	1866	1880	1895	1867
85°	336	406	462	503	523	408
90°	0	8	9	20	19	14
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11739.0	11739.0	11739.0	11739.0	11739.0
2.5°	11674.8	11744.3	11695.7	11742.0	11795.8
5°	11627.8	11701.0	11660.7	11712.2	11727.1
7.5°	11559.1	11630.1	11591.2	11642.7	11658.4
10°	11442.7	11519.6	11489.0	11547.2	11563.6
12.5°	11306.8	11379.2	11359.1	11427.0	11438.2
15°	11124.7	11202.3	11185.1	11238.9	11239.6
17.5°	10923.1	10996.3	10983.6	11025.4	11023.9
20°	10699.9	10778.3	10751.4	10796.9	10782.8
22.5°	10435.6	10519.2	10485.6	10523.7	10487.9
25°	10128.8	10210.2	10186.3	10208.7	10171.4
27.5°	9831.7	9906.3	9857.1	9883.9	9844.4
30°	9500.2	9563.7	9525.6	9534.6	9486.8
32.5°	9127.7	9203.1	9156.8	9155.3	9104.6
35°	8763.4	8840.3	8785.8	8784.3	8729.8
37.5°	8360.3	8432.0	8367.8	8371.5	8308.0
40°	7949.0	8010.9	7949.0	7946.0	7887.7
42.5°	7502.5	7584.7	7527.9	7534.6	7457.0
45°	7080.8	7156.2	7100.2	7071.0	7027.8
47.5°	6660.5	6693.3	6647.0	6639.6	6578.3
50°	6215.5	6240.2	6205.1	6196.1	6127.4
52.5°	5755.7	5798.2	5753.4	5741.5	5696.0
55°	5306.3	5342.9	5307.0	5298.1	5259.2
57.5°	4853.9	4901.7	4865.1	4856.1	4824.8
60°	4401.5	4415.7	4406.7	4420.2	4389.5
62.5°	3952.1	3984.9	3995.4	3991.6	3967.8
65°	3506.4	3540.7	3541.5	3559.4	3550.5
67.5°	3050.3	3095.1	3107.8	3126.4	3134.6
70°	2621.0	2655.4	2692.7	2703.9	2695.7
72.5°	2188.8	2244.0	2285.8	2295.6	2330.6
75°	1752.8	1805.1	1866.3	1879.7	1895.4
77.5°	1348.2	1417.6	1472.9	1490.8	1510.2
80°	964.5	1041.4	1096.6	1121.3	1158.6
82.5°	633.0	711.4	767.4	792.1	837.6
85°	335.9	406.1	462.1	503.2	522.6
87.5°	99.3	159.0	191.1	203.1	220.2
90°	0.0	7.5	9.0	20.2	18.7
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)