

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: P284668

Luminaire Tested: **4SNLED-LD5-46HL-SLW-UNV-L935-CD1-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: P284668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-46HL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3833.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

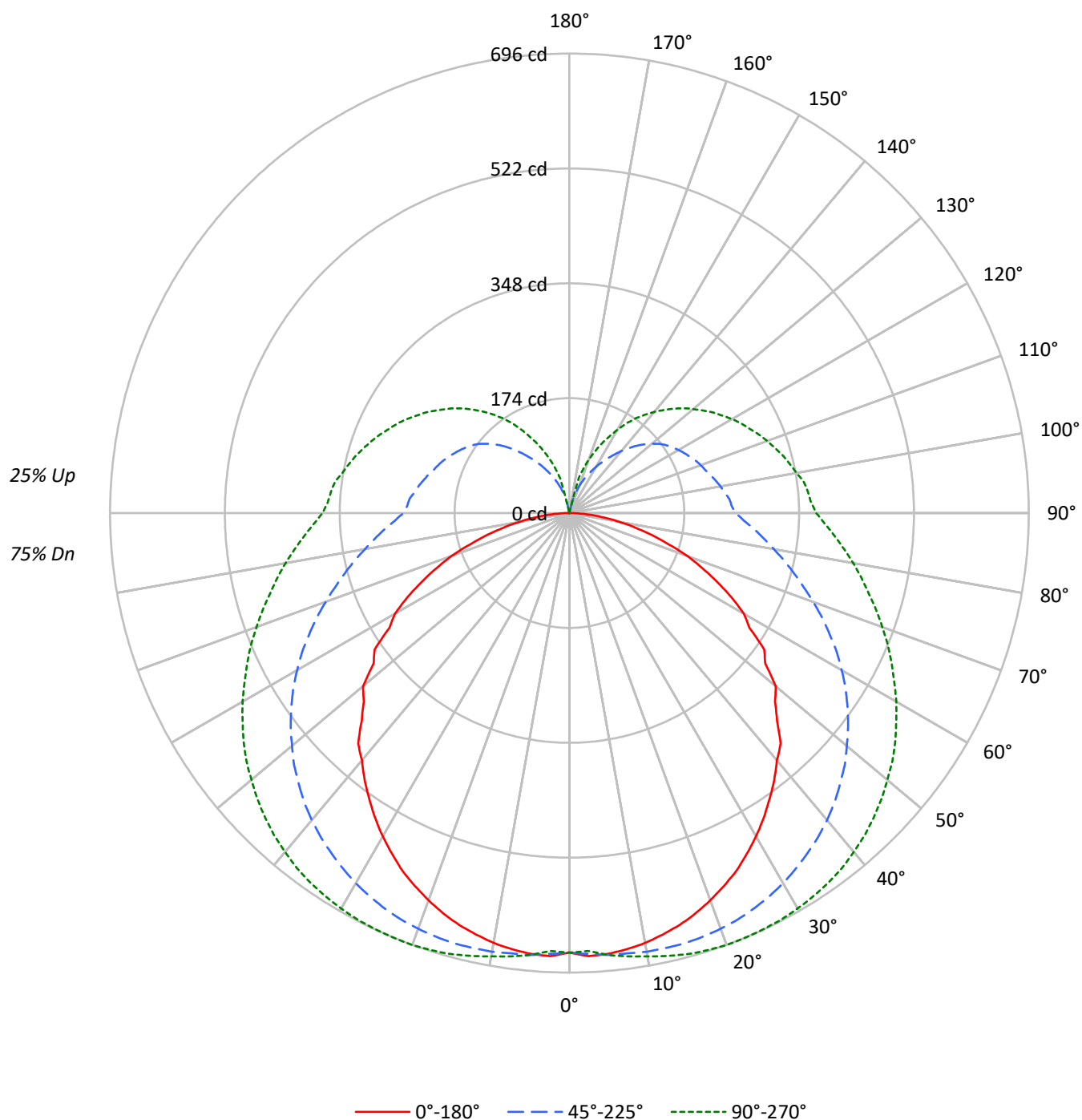
Input Watts (W): 37
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5380	5380	5380
5°	5421	5316	5276
10°	5395	5269	5247
15°	5358	5241	5258
20°	5308	5217	5268
25°	5257	5198	5277
30°	5184	5182	5305
35°	5103	5164	5341
40°	5027	5160	5376
45°	4931	5147	5418
50°	4946	5137	5462
55°	4858	5137	5526
60°	4681	5140	5601
65°	4421	5146	5706
70°	4136	5185	5866
75°	3629	5305	6103
80°	3064	5560	6497
85°	2275	6078	7072



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	1.7
10°-20°	189.6	4.9
20°-30°	301.4	7.9
30°-40°	386.8	10.1
40°-50°	436.8	11.4
50°-60°	445.7	11.6
60°-70°	412.9	10.8
70°-80°	349.6	9.1
80°-90°	279.0	7.3
90°-100°	237.0	6.2
100°-110°	211.1	5.5
110°-120°	179.8	4.7
120°-130°	142.8	3.7
130°-140°	101.3	2.6
140°-150°	60.5	1.6
150°-160°	28.2	0.7
160°-170°	6.7	0.2
170°-180°	0.0	0.0
0°-30°	555.0	14.5
0°-40°	941.7	24.6
0°-60°	1824.2	47.6
0°-90°	2865.7	74.8
90°-120°	627.9	16.4
90°-150°	932.5	24.3
90°-180°	967.0	25.2
0°-180°	3833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	666	666	666	666	666	
5°	670	665	672	672	672	64
15°	646	651	675	687	692	182
25°	598	618	661	684	695	275
35°	529	568	629	667	684	331
45°	445	505	580	630	652	346
55°	360	421	514	577	602	316
65°	247	329	435	510	539	245
75°	130	230	352	439	469	138
85°	33	148	281	372	404	36
90°	2	121	251	342	374	3
95°	0	114	243	332	363	0
105°	0	104	222	305	335	0
115°	0	97	202	275	302	0
125°	0	84	179	242	266	0
135°	0	62	144	204	223	0
145°	0	41	101	153	175	0
155°	1	25	62	94	116	0
165°	1	14	28	39	55	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665.7	665.7	665.7	665.7	665.7
2.5°	671.8	664.7	668.4	667.4	663.8
5°	670.1	664.7	671.8	671.8	671.8
7.5°	666.4	662.8	672.8	676.4	677.4
10°	661.1	661.1	674.7	680.1	681.8
12.5°	653.8	656.5	674.7	682.7	687.1
15°	645.8	651.1	674.7	687.1	691.7
17.5°	635.8	644.8	672.8	688.1	694.4
20°	624.2	637.8	670.1	688.1	696.3
22.5°	611.5	628.8	666.4	686.4	696.3
25°	598.2	617.8	661.1	684.4	695.4
27.5°	581.9	607.1	654.8	681.8	694.4
30°	565.6	594.5	647.5	678.1	691.7
32.5°	547.6	580.9	638.5	672.8	688.1
35°	528.6	567.5	628.8	667.4	683.7
37.5°	509.7	551.2	618.8	660.1	678.1
40°	489.0	535.0	607.1	651.1	670.1
42.5°	473.7	517.9	594.5	642.1	662.1
45°	445.0	505.3	579.9	630.5	652.1
47.5°	422.4	481.0	565.6	618.8	641.2
50°	408.1	461.1	548.6	605.2	628.8
52.5°	373.8	447.7	532.3	591.8	616.9
55°	360.2	420.7	514.3	577.2	602.5
57.5°	323.3	401.8	496.3	561.2	587.2
60°	305.3	375.5	476.4	544.9	571.9
62.5°	277.3	353.2	456.7	526.9	554.9
65°	246.7	328.8	435.1	509.7	538.6
67.5°	218.0	304.5	414.4	491.7	522.3
70°	190.1	279.3	392.8	473.7	504.3
72.5°	157.5	254.0	371.9	456.7	487.3
75°	129.8	229.7	352.2	438.7	469.3
77.5°	102.6	206.4	333.2	422.4	453.0
80°	77.5	183.7	314.3	405.4	436.8
82.5°	54.0	164.8	297.3	389.1	419.8
85°	33.3	147.8	281.0	371.9	403.5
87.5°	15.3	132.5	264.7	355.8	388.2
90°	1.7	120.8	251.3	342.2	373.8
92.5°	1.0	117.2	246.0	335.9	366.5
95°	0.0	113.5	243.3	332.3	362.9
97.5°	0.0	109.9	237.0	326.9	358.5
100°	0.0	108.2	232.4	318.9	349.5
102.5°	0.0	105.5	227.0	311.6	342.2
105°	0.0	104.5	221.7	305.3	335.2
107.5°	0.0	102.6	216.1	297.3	326.9
110°	0.0	100.9	211.7	290.0	318.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	99.2	207.1	282.9	310.6
115°	0.0	97.2	201.7	274.6	301.6
117.5°	0.0	94.5	196.4	266.6	293.6
120°	0.0	90.9	191.0	259.3	284.6
122.5°	0.0	87.3	185.4	250.3	274.6
125°	0.0	83.9	179.1	242.3	265.7
127.5°	0.0	78.3	172.1	233.3	255.0
130°	0.0	72.9	163.1	224.3	245.0
132.5°	1.0	67.6	154.1	214.4	235.0
135°	0.0	62.2	144.1	204.4	223.4
137.5°	0.0	57.6	133.2	193.7	211.7
140°	0.0	52.3	122.5	181.1	200.0
142.5°	0.0	45.9	111.8	167.5	187.4
145°	0.0	40.6	100.9	153.1	174.8
147.5°	1.0	36.0	90.9	137.8	161.1
150°	1.0	32.3	81.2	122.5	145.8
152.5°	1.0	28.9	71.2	108.2	130.5
155°	1.0	25.3	62.2	93.6	116.2
157.5°	1.0	21.6	52.3	79.2	100.9
160°	1.0	19.0	43.3	66.6	86.5
162.5°	1.0	16.3	35.2	52.3	71.2
165°	1.0	13.6	28.0	38.6	54.9
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)