

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

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: 45NLED-LD5-46HL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

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

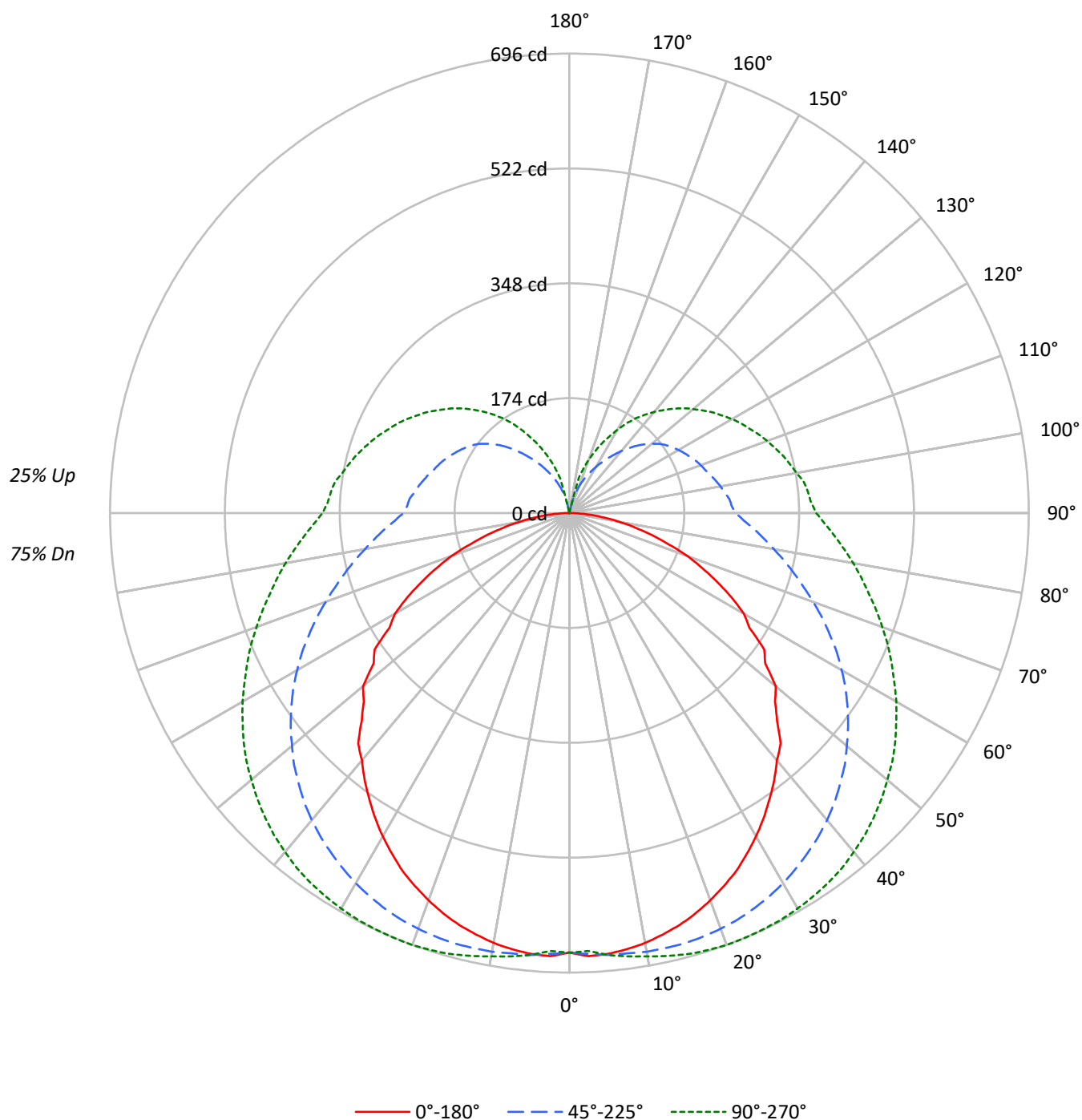
Input Watts (W): 37
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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)