

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: P284513

Luminaire Tested: **4SNLED-LD5-48HL-SLW-UNV-L835-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: P284513
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-LD5-48HL-SLW-UNV-L835-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: 4774.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

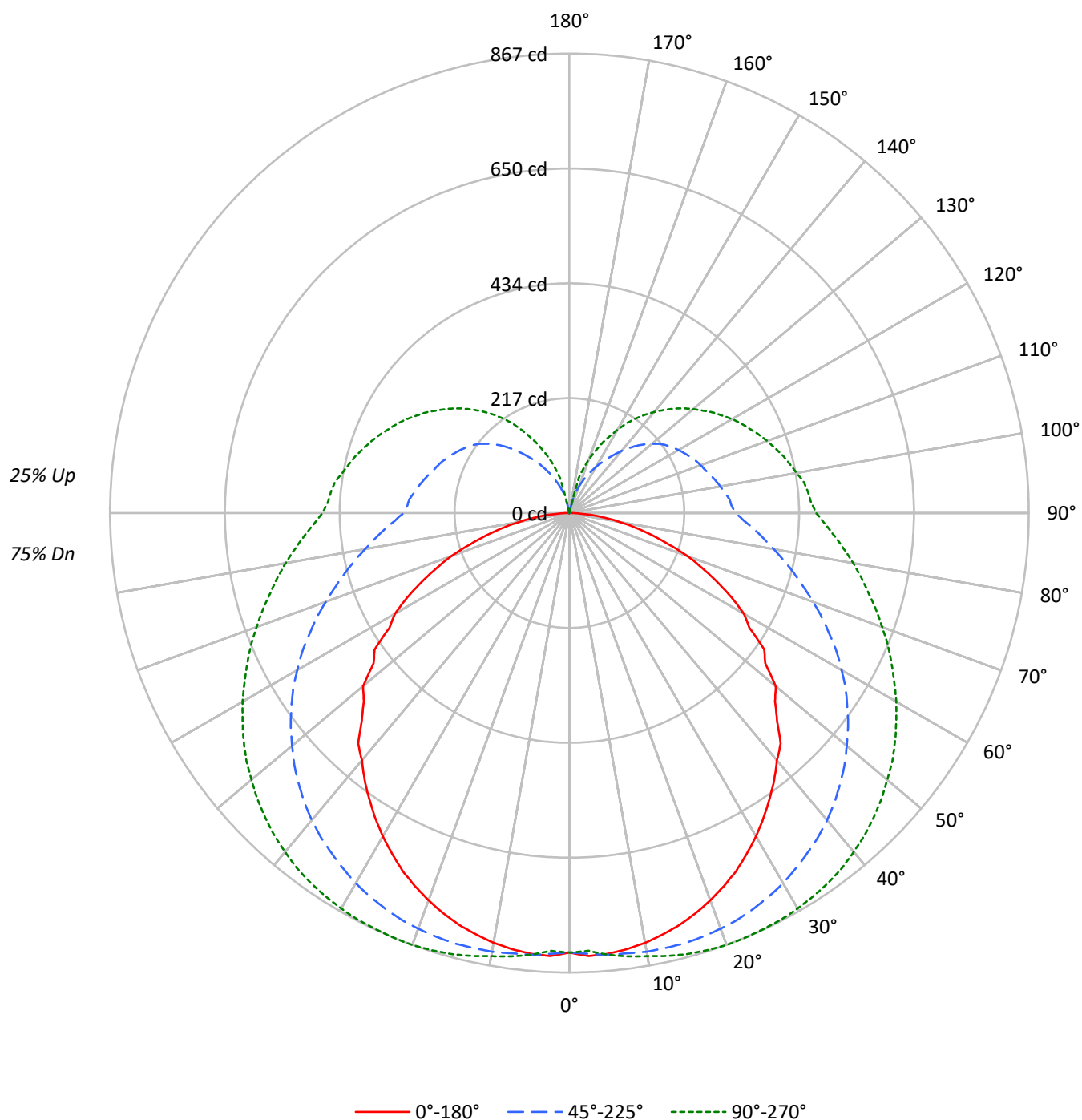
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6701	6701	6701
5°	6752	6621	6571
10°	6720	6563	6535
15°	6673	6528	6549
20°	6610	6497	6562
25°	6547	6474	6572
30°	6456	6453	6607
35°	6356	6431	6653
40°	6261	6427	6695
45°	6143	6411	6749
50°	6161	6397	6802
55°	6050	6398	6883
60°	5829	6401	6976
65°	5507	6410	7106
70°	5150	6457	7306
75°	4521	6606	7602
80°	3819	6924	8091
85°	2835	7569	8807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	1.7
10°-20°	236.2	4.9
20°-30°	375.3	7.9
30°-40°	481.7	10.1
40°-50°	544.0	11.4
50°-60°	555.1	11.6
60°-70°	514.2	10.8
70°-80°	435.4	9.1
80°-90°	347.5	7.3
90°-100°	295.1	6.2
100°-110°	262.9	5.5
110°-120°	223.9	4.7
120°-130°	177.9	3.7
130°-140°	126.2	2.6
140°-150°	75.3	1.6
150°-160°	35.1	0.7
160°-170°	8.3	0.2
170°-180°	0.0	0.0
0°-30°	691.2	14.5
0°-40°	1172.9	24.6
0°-60°	2272.0	47.6
0°-90°	3569.2	74.8
90°-120°	782.0	16.4
90°-150°	1161.4	24.3
90°-180°	1205.0	25.2
0°-180°	4774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	835	828	837	837	837	79
15°	804	811	840	856	862	227
25°	745	770	823	852	866	343
35°	658	707	783	831	852	412
45°	554	629	722	785	812	430
55°	449	524	641	719	750	394
65°	307	410	542	635	671	305
75°	162	286	439	546	585	172
85°	42	184	350	463	502	45
90°	2	150	313	426	466	3
95°	0	141	303	414	452	0
105°	0	130	276	380	418	0
115°	0	121	251	342	376	0
125°	0	104	223	302	331	0
135°	0	78	180	255	278	0
145°	0	51	126	191	218	0
155°	1	32	78	116	145	1
165°	1	17	35	48	68	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°	829.2	829.2	829.2	829.2	829.2
2.5°	836.7	827.9	832.5	831.3	826.7
5°	834.6	827.9	836.7	836.7	836.7
7.5°	830.1	825.5	837.9	842.5	843.7
10°	823.4	823.4	840.4	847.0	849.1
12.5°	814.3	817.7	840.4	850.3	855.8
15°	804.3	811.0	840.4	855.8	861.5
17.5°	791.9	803.1	837.9	857.0	864.9
20°	777.4	794.3	834.6	857.0	867.3
22.5°	761.6	783.1	830.1	854.9	867.3
25°	745.0	769.5	823.4	852.5	866.1
27.5°	724.7	756.2	815.5	849.1	864.9
30°	704.4	740.5	806.4	844.6	861.5
32.5°	682.0	723.5	795.2	837.9	857.0
35°	658.4	706.9	783.1	831.3	851.6
37.5°	634.8	686.6	770.7	822.2	844.6
40°	609.1	666.3	756.2	811.0	834.6
42.5°	590.0	645.1	740.5	799.8	824.6
45°	554.3	629.4	722.3	785.3	812.2
47.5°	526.1	599.1	704.4	770.7	798.6
50°	508.3	574.3	683.2	753.8	783.1
52.5°	465.6	557.6	663.0	737.1	768.3
55°	448.6	524.0	640.6	719.0	750.4
57.5°	402.6	500.4	618.2	699.0	731.4
60°	380.2	467.7	593.3	678.7	712.3
62.5°	345.4	439.9	568.8	656.3	691.1
65°	307.3	409.6	541.9	634.8	670.8
67.5°	271.5	379.3	516.1	612.4	650.5
70°	236.7	347.8	489.2	590.0	628.1
72.5°	196.2	316.3	463.2	568.8	607.0
75°	161.7	286.1	438.6	546.4	584.6
77.5°	127.7	257.0	415.0	526.1	564.3
80°	96.6	228.9	391.4	504.9	544.0
82.5°	67.2	205.2	370.2	484.7	522.8
85°	41.5	184.1	349.9	463.2	502.5
87.5°	19.1	165.0	329.7	443.2	483.4
90°	2.1	150.5	313.0	426.2	465.6
92.5°	1.2	145.9	306.4	418.4	456.5
95°	0.0	141.4	303.0	413.8	452.0
97.5°	0.0	136.8	295.2	407.2	446.5
100°	0.0	134.7	289.4	397.2	435.3
102.5°	0.0	131.4	282.7	388.1	426.2
105°	0.0	130.2	276.1	380.2	417.5
107.5°	0.0	127.7	269.1	370.2	407.2
110°	0.0	125.6	263.7	361.1	397.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	123.5	257.9	352.4	386.9
115°	0.0	121.1	251.3	342.1	375.7
117.5°	0.0	117.8	244.6	332.1	365.7
120°	0.0	113.2	237.9	323.0	354.5
122.5°	0.0	108.7	231.0	311.8	342.1
125°	0.0	104.4	223.1	301.8	330.9
127.5°	0.0	97.5	214.3	290.6	317.6
130°	0.0	90.8	203.1	279.4	305.1
132.5°	1.2	84.2	191.9	267.0	292.7
135°	0.0	77.5	179.5	254.6	278.2
137.5°	0.0	71.7	165.9	241.3	263.7
140°	0.0	65.1	152.6	225.5	249.1
142.5°	0.0	57.2	139.3	208.6	233.4
145°	0.0	50.6	125.6	190.7	217.7
147.5°	1.2	44.8	113.2	171.6	200.7
150°	1.2	40.3	101.1	152.6	181.6
152.5°	1.2	36.0	88.7	134.7	162.6
155°	1.2	31.5	77.5	116.5	144.7
157.5°	1.2	26.9	65.1	98.7	125.6
160°	1.2	23.6	53.9	82.9	107.8
162.5°	1.2	20.3	43.9	65.1	88.7
165°	1.2	17.0	34.8	48.1	68.4
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)