

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: P284748

Luminaire Tested: **4SNLED-LD5-52HL-SLW-UNV-L950-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: P284748
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-LD5-52HL-SLW-UNV-L950-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: 4767.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

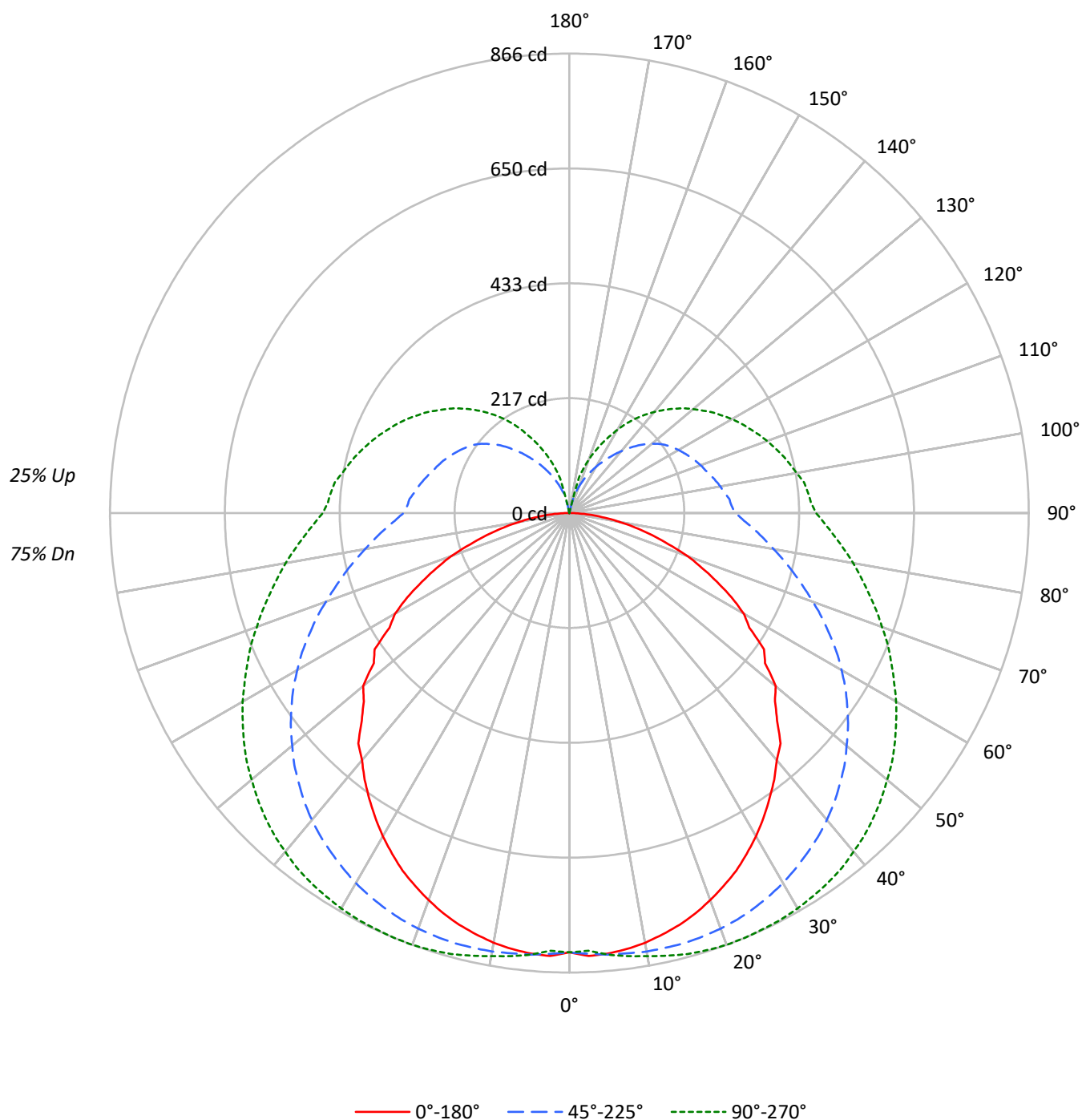
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6690	6690	6690
5°	6742	6611	6562
10°	6710	6553	6526
15°	6664	6518	6540
20°	6600	6488	6552
25°	6538	6464	6562
30°	6447	6445	6598
35°	6347	6422	6642
40°	6252	6417	6686
45°	6134	6401	6739
50°	6151	6388	6793
55°	6042	6388	6872
60°	5822	6392	6967
65°	5498	6400	7096
70°	5144	6448	7295
75°	4513	6597	7591
80°	3811	6913	8079
85°	2828	7558	8794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	1.7
10°-20°	235.8	4.9
20°-30°	374.8	7.9
30°-40°	481.0	10.1
40°-50°	543.2	11.4
50°-60°	554.3	11.6
60°-70°	513.5	10.8
70°-80°	434.7	9.1
80°-90°	347.0	7.3
90°-100°	294.7	6.2
100°-110°	262.5	5.5
110°-120°	223.6	4.7
120°-130°	177.6	3.7
130°-140°	126.0	2.6
140°-150°	75.2	1.6
150°-160°	35.1	0.7
160°-170°	8.3	0.2
170°-180°	0.0	0.0
0°-30°	690.2	14.5
0°-40°	1171.2	24.6
0°-60°	2268.7	47.6
0°-90°	3563.9	74.8
90°-120°	780.8	16.4
90°-150°	1159.6	24.3
90°-180°	1203.0	25.2
0°-180°	4767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	833	827	836	836	836	79
15°	803	810	839	854	860	227
25°	744	768	822	851	865	342
35°	658	706	782	830	850	412
45°	554	628	721	784	811	430
55°	448	523	640	718	749	393
65°	307	409	541	634	670	305
75°	161	286	438	546	584	172
85°	41	184	349	462	502	45
90°	2	150	313	426	465	3
95°	0	141	303	413	451	0
105°	0	130	276	380	417	0
115°	0	121	251	342	375	0
125°	0	104	223	301	330	0
135°	0	77	179	254	278	0
145°	0	50	125	190	217	0
155°	1	31	77	116	144	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°	827.9	827.9	827.9	827.9	827.9
2.5°	835.5	826.7	831.3	830.1	825.5
5°	833.4	826.7	835.5	835.5	835.5
7.5°	828.8	824.3	836.7	841.2	842.4
10°	822.2	822.2	839.1	845.8	847.9
12.5°	813.1	816.5	839.1	849.1	854.5
15°	803.2	809.8	839.1	854.5	860.3
17.5°	790.8	801.9	836.7	855.7	863.6
20°	776.2	793.2	833.4	855.7	866.0
22.5°	760.5	782.0	828.8	853.6	866.0
25°	743.9	768.4	822.2	851.2	864.8
27.5°	723.7	755.1	814.3	847.9	863.6
30°	703.4	739.4	805.3	843.4	860.3
32.5°	681.0	722.4	794.1	836.7	855.7
35°	657.5	705.8	782.0	830.1	850.3
37.5°	633.9	685.6	769.6	821.0	843.4
40°	608.2	665.3	755.1	809.8	833.4
42.5°	589.1	644.2	739.4	798.6	823.4
45°	553.5	628.4	721.2	784.1	811.0
47.5°	525.4	598.2	703.4	769.6	797.4
50°	507.5	573.4	682.2	752.7	782.0
52.5°	464.9	556.8	662.0	736.0	767.2
55°	448.0	523.2	639.6	717.9	749.3
57.5°	402.0	499.7	617.3	698.0	730.3
60°	379.7	467.0	592.5	677.7	711.3
62.5°	344.9	439.2	568.0	655.3	690.1
65°	306.8	409.0	541.1	633.9	669.8
67.5°	271.1	378.8	515.4	611.5	649.6
70°	236.4	347.3	488.5	589.1	627.2
72.5°	195.9	315.9	462.5	568.0	606.1
75°	161.4	285.7	438.0	545.6	583.7
77.5°	127.6	256.6	414.4	525.4	563.4
80°	96.4	228.5	390.8	504.2	543.2
82.5°	67.1	204.9	369.7	483.9	522.0
85°	41.4	183.8	349.4	462.5	501.8
87.5°	19.0	164.7	329.2	442.5	482.7
90°	2.1	150.2	312.6	425.6	464.9
92.5°	1.2	145.7	305.9	417.7	455.8
95°	0.0	141.2	302.6	413.2	451.3
97.5°	0.0	136.6	294.7	406.6	445.9
100°	0.0	134.5	289.0	396.6	434.7
102.5°	0.0	131.2	282.3	387.5	425.6
105°	0.0	130.0	275.7	379.7	416.8
107.5°	0.0	127.6	268.7	369.7	406.6
110°	0.0	125.4	263.3	360.6	396.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	123.3	257.5	351.9	386.3
115°	0.0	120.9	250.9	341.6	375.1
117.5°	0.0	117.6	244.2	331.6	365.2
120°	0.0	113.1	237.6	322.5	354.0
122.5°	0.0	108.5	230.6	311.3	341.6
125°	0.0	104.3	222.8	301.4	330.4
127.5°	0.0	97.3	214.0	290.2	317.1
130°	0.0	90.7	202.8	279.0	304.7
132.5°	1.2	84.0	191.6	266.6	292.3
135°	0.0	77.4	179.3	254.2	277.8
137.5°	0.0	71.6	165.6	240.9	263.3
140°	0.0	65.0	152.3	225.2	248.8
142.5°	0.0	57.1	139.0	208.3	233.1
145°	0.0	50.5	125.4	190.4	217.3
147.5°	1.2	44.7	113.1	171.4	200.4
150°	1.2	40.2	101.0	152.3	181.4
152.5°	1.2	36.0	88.6	134.5	162.3
155°	1.2	31.4	77.4	116.4	144.5
157.5°	1.2	26.9	65.0	98.5	125.4
160°	1.2	23.6	53.8	82.8	107.6
162.5°	1.2	20.3	43.8	65.0	88.6
165°	1.2	16.9	34.8	48.1	68.3
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)