

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: P284704

Luminaire Tested: **4SNLED-LD5-54SL-SLW-UNV-L940-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: P284704
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-LD5-54SL-SLW-UNV-L940-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: 4665.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

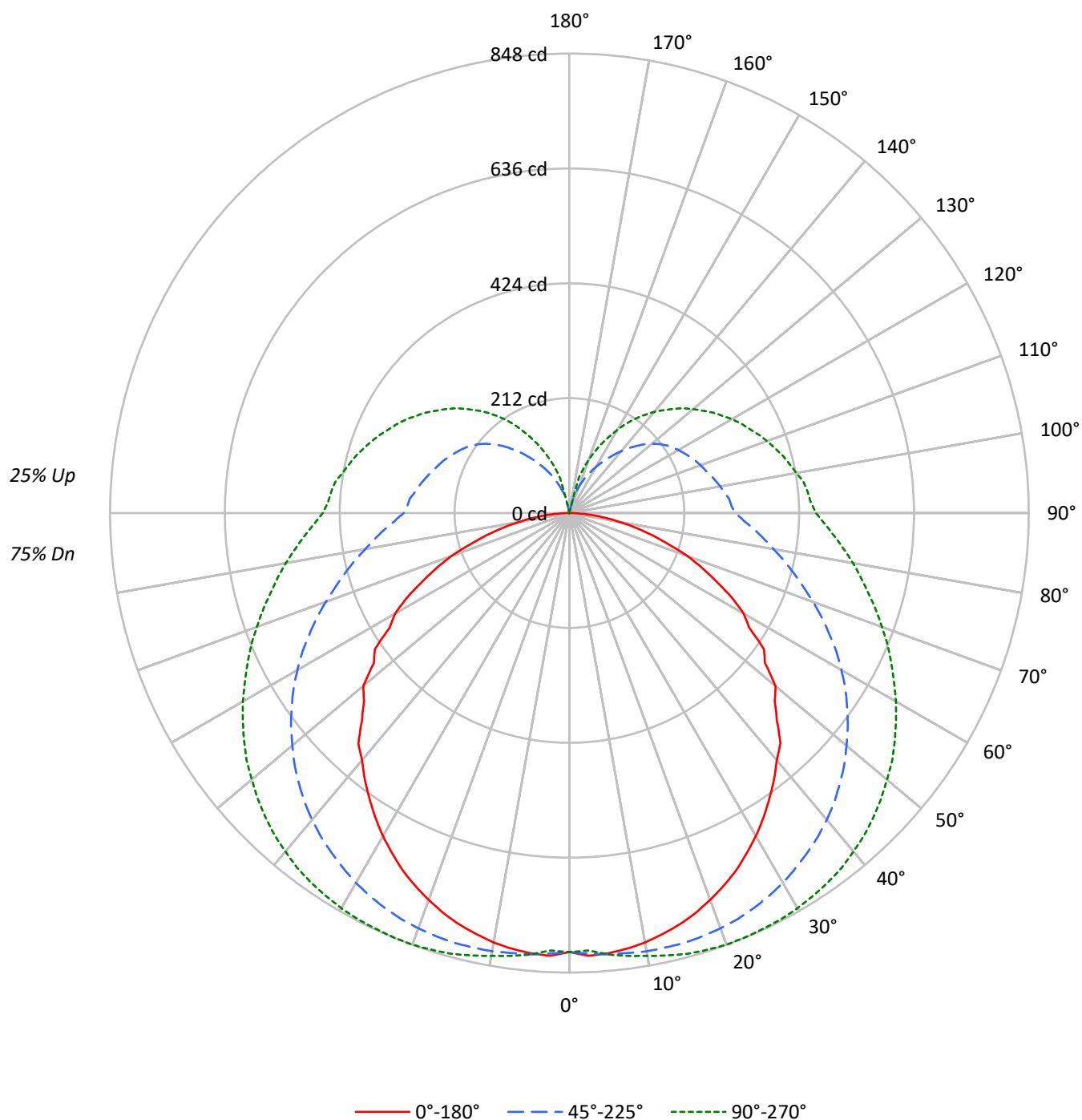
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6547	6547	6547
5°	6597	6470	6421
10°	6566	6413	6386
15°	6521	6379	6400
20°	6459	6349	6412
25°	6398	6326	6422
30°	6309	6306	6457
35°	6211	6285	6500
40°	6118	6280	6542
45°	6002	6265	6595
50°	6020	6251	6647
55°	5913	6251	6726
60°	5696	6255	6817
65°	5380	6263	6944
70°	5033	6310	7139
75°	4418	6455	7428
80°	3732	6767	7907
85°	2767	7398	8605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.7
10°-20°	230.8	4.9
20°-30°	366.8	7.9
30°-40°	470.7	10.1
40°-50°	531.6	11.4
50°-60°	542.4	11.6
60°-70°	502.5	10.8
70°-80°	425.4	9.1
80°-90°	339.6	7.3
90°-100°	288.4	6.2
100°-110°	256.9	5.5
110°-120°	218.8	4.7
120°-130°	173.8	3.7
130°-140°	123.3	2.6
140°-150°	73.6	1.6
150°-160°	34.3	0.7
160°-170°	8.2	0.2
170°-180°	0.0	0.0
0°-30°	675.4	14.5
0°-40°	1146.2	24.6
0°-60°	2220.1	47.6
0°-90°	3487.7	74.8
90°-120°	764.1	16.4
90°-150°	1134.8	24.3
90°-180°	1177.0	25.2
0°-180°	4665.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	816	809	818	818	818	77
15°	786	792	821	836	842	222
25°	728	752	805	833	846	335
35°	643	691	765	812	832	403
45°	542	615	706	767	794	421
55°	438	512	626	702	733	385
65°	300	400	530	620	656	298
75°	158	280	429	534	571	168
85°	40	180	342	453	491	44
90°	2	147	306	416	455	3
95°	0	138	296	404	442	0
105°	0	127	270	372	408	0
115°	0	118	246	334	367	0
125°	0	102	218	295	323	0
135°	0	76	175	249	272	0
145°	0	49	123	186	213	0
155°	1	31	76	114	141	1
165°	1	17	34	47	67	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°	810.2	810.2	810.2	810.2	810.2
2.5°	817.6	809.0	813.5	812.3	807.9
5°	815.5	809.0	817.6	817.6	817.6
7.5°	811.1	806.7	818.8	823.2	824.4
10°	804.6	804.6	821.2	827.7	829.7
12.5°	795.7	799.0	821.2	830.9	836.3
15°	786.0	792.5	821.2	836.3	841.9
17.5°	773.8	784.8	818.8	837.4	845.1
20°	759.6	776.2	815.5	837.4	847.5
22.5°	744.3	765.3	811.1	835.4	847.5
25°	728.0	751.9	804.6	833.0	846.3
27.5°	708.2	738.9	796.9	829.7	845.1
30°	688.3	723.6	788.0	825.3	841.9
32.5°	666.5	707.0	777.1	818.8	837.4
35°	643.4	690.7	765.3	812.3	832.1
37.5°	620.3	670.9	753.1	803.4	825.3
40°	595.2	651.1	738.9	792.5	815.5
42.5°	576.5	630.4	723.6	781.5	805.8
45°	541.6	615.0	705.8	767.3	793.7
47.5°	514.1	585.4	688.3	753.1	780.3
50°	496.7	561.2	667.6	736.6	765.3
52.5°	455.0	544.9	647.8	720.3	750.8
55°	438.4	512.0	625.9	702.5	733.3
57.5°	393.4	489.0	604.0	683.0	714.7
60°	371.5	457.0	579.8	663.2	696.0
62.5°	337.5	429.8	555.8	641.3	675.3
65°	300.2	400.2	529.5	620.3	655.5
67.5°	265.3	370.6	504.4	598.4	635.7
70°	231.3	339.9	478.0	576.5	613.8
72.5°	191.7	309.1	452.6	555.8	593.1
75°	158.0	279.5	428.6	533.9	571.2
77.5°	124.8	251.1	405.6	514.1	551.4
80°	94.4	223.6	382.5	493.4	531.6
82.5°	65.7	200.6	361.8	473.6	510.9
85°	40.5	179.9	342.0	452.6	491.0
87.5°	18.6	161.2	322.1	433.1	472.4
90°	2.1	147.0	305.9	416.5	455.0
92.5°	1.2	142.6	299.4	408.8	446.1
95°	0.0	138.1	296.1	404.4	441.6
97.5°	0.0	133.7	288.4	397.9	436.3
100°	0.0	131.6	282.8	388.1	425.4
102.5°	0.0	128.4	276.3	379.2	416.5
105°	0.0	127.2	269.8	371.5	407.9
107.5°	0.0	124.8	263.0	361.8	397.9
110°	0.0	122.8	257.7	352.9	388.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	120.7	252.0	344.3	378.0
115°	0.0	118.3	245.5	334.3	367.1
117.5°	0.0	115.1	239.0	324.5	357.3
120°	0.0	110.6	232.5	315.6	346.4
122.5°	0.0	106.2	225.7	304.7	334.3
125°	0.0	102.1	218.0	294.9	323.3
127.5°	0.0	95.3	209.4	284.0	310.3
130°	0.0	88.7	198.5	273.0	298.2
132.5°	1.2	82.2	187.5	260.9	286.0
135°	0.0	75.7	175.4	248.8	271.8
137.5°	0.0	70.1	162.1	235.8	257.7
140°	0.0	63.6	149.1	220.4	243.5
142.5°	0.0	55.9	136.1	203.8	228.1
145°	0.0	49.4	122.8	186.4	212.7
147.5°	1.2	43.8	110.6	167.7	196.1
150°	1.2	39.3	98.8	149.1	177.5
152.5°	1.2	35.2	86.7	131.6	158.8
155°	1.2	30.8	75.7	113.9	141.4
157.5°	1.2	26.3	63.6	96.4	122.8
160°	1.2	23.1	52.7	81.1	105.3
162.5°	1.2	19.8	42.9	63.6	86.7
165°	1.2	16.6	34.0	47.0	66.9
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)