

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: P284705

Luminaire Tested: **4SNLED-LD5-64SL-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: P284705
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-LD5-64SL-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: 5482.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

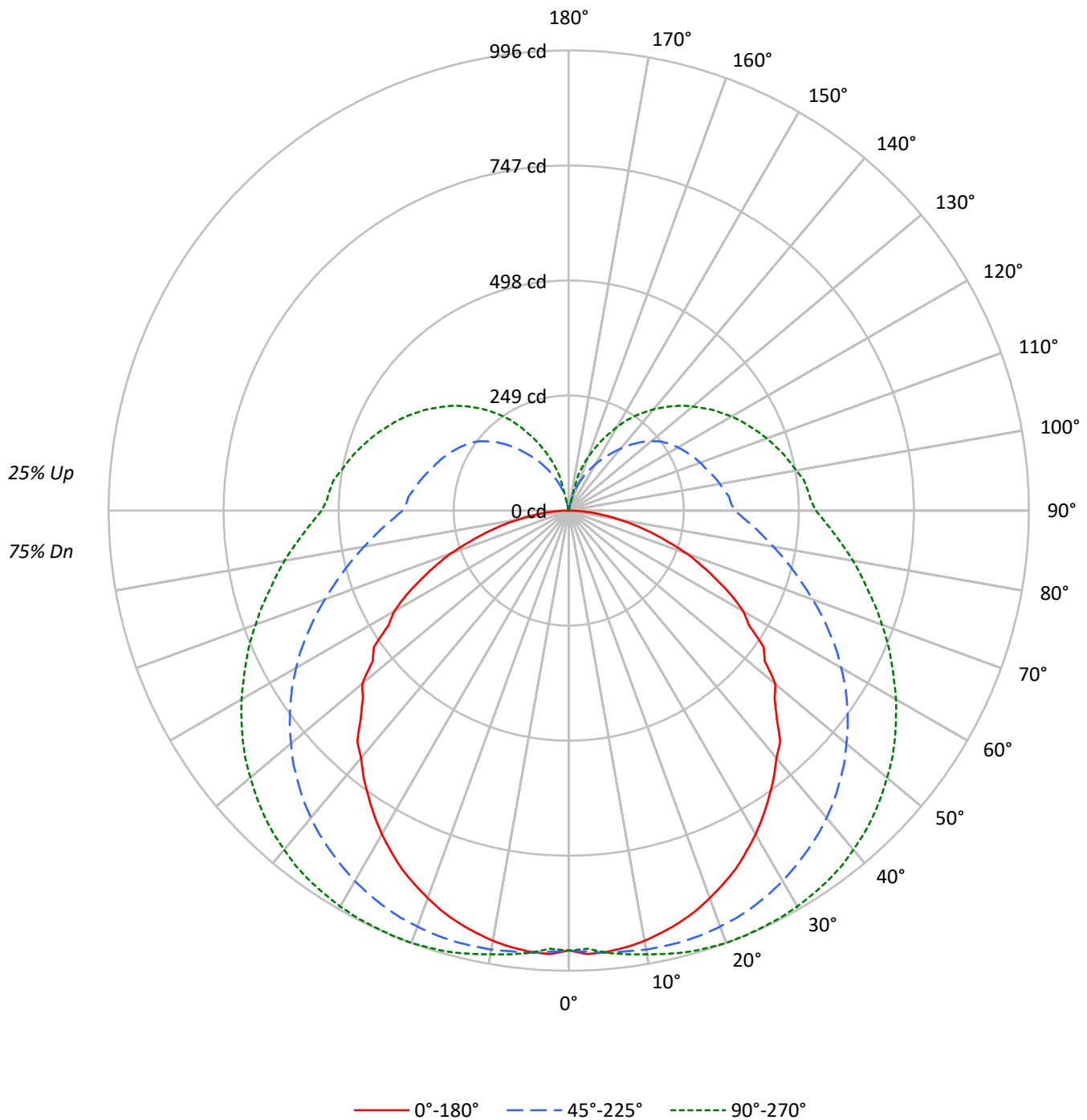
Input Watts (W): 70
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284705

CATALOG NUMBER: 4SNLED-LD5-64SL-SLW-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284705

CATALOG NUMBER: 4SNLED-LD5-64SL-SLW-UNV-L940-CD1-U

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°	7694	7694	7694
5°	7753	7603	7546
10°	7716	7536	7505
15°	7663	7496	7520
20°	7591	7461	7535
25°	7518	7434	7546
30°	7414	7410	7587
35°	7299	7385	7638
40°	7189	7379	7688
45°	7054	7362	7750
50°	7073	7346	7811
55°	6948	7347	7903
60°	6694	7351	8011
65°	6322	7359	8160
70°	5914	7414	8390
75°	5190	7586	8729
80°	4384	7952	9291
85°	3252	8691	10112



TEST NUMBER: P284705

CATALOG NUMBER: 4SNLED-LD5-64SL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	1.7
10°-20°	271.2	4.9
20°-30°	431.0	7.9
30°-40°	553.2	10.1
40°-50°	624.7	11.4
50°-60°	637.4	11.6
60°-70°	590.5	10.8
70°-80°	500.0	9.1
80°-90°	399.1	7.3
90°-100°	338.9	6.2
100°-110°	301.9	5.5
110°-120°	257.1	4.7
120°-130°	204.2	3.7
130°-140°	144.9	2.6
140°-150°	86.5	1.6
150°-160°	40.3	0.7
160°-170°	9.6	0.2
170°-180°	0.0	0.0
0°-30°	793.7	14.5
0°-40°	1346.9	24.6
0°-60°	2609.0	47.6
0°-90°	4098.5	74.8
90°-120°	897.9	16.4
90°-150°	1333.6	24.3
90°-180°	1383.0	25.2
0°-180°	5482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	958	951	961	961	961	91
15°	924	931	965	983	989	261
25°	856	884	946	979	994	394
35°	756	812	899	955	978	473
45°	636	723	829	902	933	494
55°	515	602	736	826	862	452
65°	353	470	622	729	770	350
75°	186	328	504	627	671	197
85°	48	211	402	532	577	52
90°	2	173	359	489	535	4
95°	0	162	348	475	519	0
105°	0	150	317	437	479	0
115°	0	139	288	393	431	0
125°	0	120	256	347	380	0
135°	0	89	206	292	320	0
145°	0	58	144	219	250	1
155°	1	36	89	134	166	1
165°	1	20	40	55	79	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284705

CATALOG NUMBER: 4SNLED-LD5-64SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.1	952.1	952.1	952.1	952.1
2.5°	960.8	950.7	955.9	954.6	949.3
5°	958.4	950.7	960.8	960.8	960.8
7.5°	953.2	947.9	962.2	967.4	968.8
10°	945.5	945.5	965.0	972.6	975.1
12.5°	935.1	938.9	965.0	976.5	982.7
15°	923.6	931.3	965.0	982.7	989.3
17.5°	909.4	922.2	962.2	984.1	993.1
20°	892.7	912.1	958.4	984.1	995.9
22.5°	874.6	899.3	953.2	981.7	995.9
25°	855.5	883.6	945.5	978.9	994.5
27.5°	832.2	868.3	936.5	975.1	993.1
30°	808.9	850.3	926.0	969.8	989.3
32.5°	783.2	830.8	913.2	962.2	984.1
35°	756.1	811.7	899.3	954.6	977.8
37.5°	729.0	788.4	885.0	944.1	969.8
40°	699.4	765.1	868.3	931.3	958.4
42.5°	677.5	740.8	850.3	918.4	946.9
45°	636.5	722.7	829.4	901.7	932.7
47.5°	604.2	687.9	808.9	885.0	917.0
50°	583.6	659.4	784.6	865.6	899.3
52.5°	534.6	640.3	761.3	846.4	882.2
55°	515.2	601.7	735.6	825.6	861.7
57.5°	462.3	574.6	709.8	802.6	839.8
60°	436.6	537.1	681.3	779.4	817.9
62.5°	396.6	505.1	653.2	753.6	793.6
65°	352.8	470.3	622.2	729.0	770.3
67.5°	311.8	435.6	592.7	703.2	747.0
70°	271.8	399.4	561.7	677.5	721.3
72.5°	225.3	363.3	531.9	653.2	697.0
75°	185.6	328.5	503.7	627.4	671.2
77.5°	146.7	295.1	476.6	604.2	648.0
80°	110.9	262.8	449.5	579.8	624.7
82.5°	77.2	235.7	425.1	556.5	600.3
85°	47.6	211.4	401.8	531.9	577.0
87.5°	21.9	189.5	378.6	508.9	555.1
90°	2.4	172.8	359.4	489.4	534.6
92.5°	1.4	167.6	351.8	480.4	524.2
95°	0.0	162.3	348.0	475.2	519.0
97.5°	0.0	157.1	338.9	467.5	512.7
100°	0.0	154.7	332.3	456.1	499.9
102.5°	0.0	150.9	324.7	445.6	489.4
105°	0.0	149.5	317.0	436.6	479.4
107.5°	0.0	146.7	309.0	425.1	467.5
110°	0.0	144.3	302.8	414.7	456.1



TEST NUMBER: P284705

CATALOG NUMBER: 4SNLED-LD5-64SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	141.8	296.2	404.6	444.3
115°	0.0	139.0	288.5	392.8	431.4
117.5°	0.0	135.2	280.9	381.3	419.9
120°	0.0	130.0	273.2	370.9	407.1
122.5°	0.0	124.8	265.2	358.0	392.8
125°	0.0	119.9	256.2	346.6	379.9
127.5°	0.0	111.9	246.1	333.7	364.6
130°	0.0	104.3	233.3	320.8	350.4
132.5°	1.4	96.6	220.4	306.6	336.1
135°	0.0	89.0	206.1	292.3	319.5
137.5°	0.0	82.4	190.5	277.0	302.8
140°	0.0	74.7	175.2	259.0	286.1
142.5°	0.0	65.7	159.9	239.5	268.0
145°	0.0	58.1	144.3	219.0	249.9
147.5°	1.4	51.4	130.0	197.1	230.5
150°	1.4	46.2	116.1	175.2	208.6
152.5°	1.4	41.4	101.9	154.7	186.7
155°	1.4	36.2	89.0	133.8	166.2
157.5°	1.4	30.9	74.7	113.3	144.3
160°	1.4	27.1	61.9	95.2	123.8
162.5°	1.4	23.3	50.4	74.7	101.9
165°	1.4	19.5	40.0	55.3	78.6
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)