

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: P284698

Luminaire Tested: **4SNLED-LD5-35SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284698
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-LD5-35SL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3004.0 lumens
Efficiency: N/A
Efficacy: 96.9 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

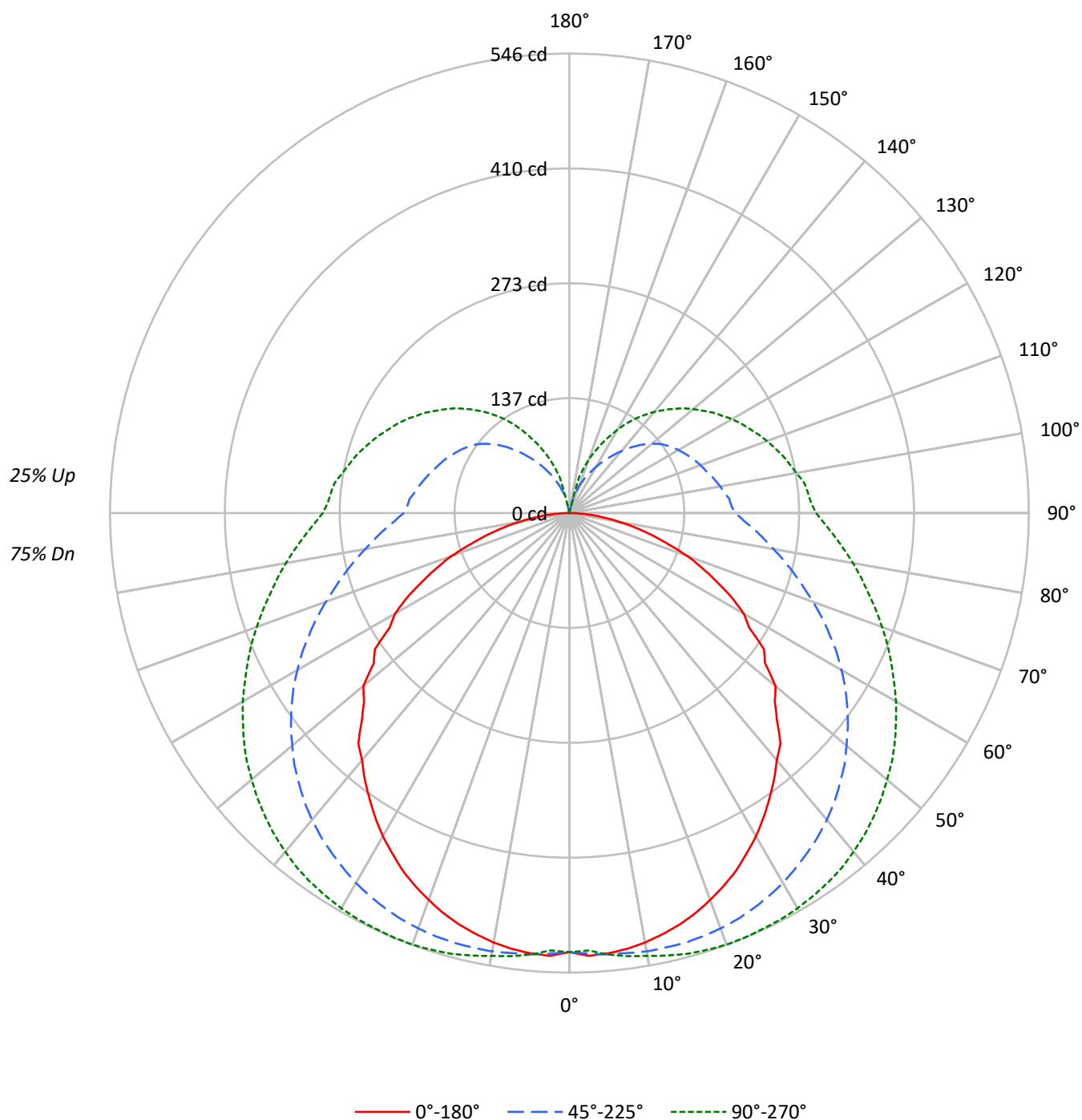
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284698

CATALOG NUMBER: 4SNLED-LD5-35SL-SLW-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284698

CATALOG NUMBER: 4SNLED-LD5-35SL-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°	4216	4216	4216
5°	4249	4166	4135
10°	4228	4130	4112
15°	4199	4108	4121
20°	4160	4089	4129
25°	4120	4073	4136
30°	4063	4061	4157
35°	4000	4047	4186
40°	3940	4044	4213
45°	3865	4034	4247
50°	3876	4025	4280
55°	3807	4026	4331
60°	3667	4029	4390
65°	3464	4033	4472
70°	3242	4063	4598
75°	2844	4157	4783
80°	2403	4357	5091
85°	1783	4763	5542



TEST NUMBER: P284698

CATALOG NUMBER: 4SNLED-LD5-35SL-SLW-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.7
10°-20°	148.6	4.9
20°-30°	236.2	7.9
30°-40°	303.1	10.1
40°-50°	342.3	11.4
50°-60°	349.3	11.6
60°-70°	323.6	10.8
70°-80°	274.0	9.1
80°-90°	218.7	7.3
90°-100°	185.7	6.2
100°-110°	165.4	5.5
110°-120°	140.9	4.7
120°-130°	111.9	3.7
130°-140°	79.4	2.6
140°-150°	47.4	1.6
150°-160°	22.1	0.7
160°-170°	5.3	0.2
170°-180°	0.0	0.0
0°-30°	434.9	14.5
0°-40°	738.1	24.6
0°-60°	1429.7	47.6
0°-90°	2245.9	74.8
90°-120°	492.0	16.4
90°-150°	730.8	24.3
90°-180°	758.0	25.2
0°-180°	3004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	525	521	526	526	526	50
15°	506	510	529	538	542	143
25°	469	484	518	536	545	216
35°	414	445	493	523	536	259
45°	349	396	454	494	511	271
55°	282	330	403	452	472	248
65°	193	258	341	399	422	192
75°	102	180	276	344	368	108
85°	26	116	220	291	316	28
90°	1	95	197	268	293	2
95°	0	89	191	260	284	0
105°	0	82	174	239	263	0
115°	0	76	158	215	236	0
125°	0	66	140	190	208	0
135°	0	49	113	160	175	0
145°	0	32	79	120	137	0
155°	1	20	49	73	91	0
165°	1	11	22	30	43	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284698

CATALOG NUMBER: 4SNLED-LD5-35SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	521.7	521.7	521.7	521.7	521.7
2.5°	526.5	521.0	523.8	523.1	520.2
5°	525.2	521.0	526.5	526.5	526.5
7.5°	522.3	519.5	527.3	530.1	530.9
10°	518.1	518.1	528.8	533.0	534.3
12.5°	512.4	514.5	528.8	535.1	538.5
15°	506.1	510.3	528.8	538.5	542.1
17.5°	498.3	505.4	527.3	539.3	544.2
20°	489.2	499.8	525.2	539.3	545.7
22.5°	479.3	492.8	522.3	537.9	545.7
25°	468.8	484.2	518.1	536.4	545.0
27.5°	456.0	475.8	513.2	534.3	544.2
30°	443.3	465.9	507.5	531.5	542.1
32.5°	429.2	455.3	500.4	527.3	539.3
35°	414.3	444.8	492.8	523.1	535.8
37.5°	399.4	432.0	485.0	517.4	531.5
40°	383.3	419.3	475.8	510.3	525.2
42.5°	371.3	405.9	465.9	503.3	518.9
45°	348.8	396.0	454.5	494.1	511.1
47.5°	331.1	377.0	443.3	485.0	502.5
50°	319.8	361.3	429.9	474.3	492.8
52.5°	293.0	350.9	417.2	463.8	483.5
55°	282.3	329.7	403.1	452.4	472.2
57.5°	253.3	314.9	389.0	439.8	460.2
60°	239.2	294.3	373.4	427.1	448.2
62.5°	217.3	276.8	357.9	413.0	434.9
65°	193.3	257.7	341.0	399.4	422.1
67.5°	170.9	238.7	324.8	385.4	409.4
70°	149.0	218.9	307.8	371.3	395.3
72.5°	123.4	199.1	291.4	357.9	381.9
75°	101.7	180.0	276.0	343.8	367.8
77.5°	80.4	161.7	261.2	331.1	355.1
80°	60.8	144.0	246.3	317.7	342.3
82.5°	42.3	129.1	233.0	305.0	329.0
85°	26.1	115.8	220.2	291.4	316.2
87.5°	12.0	103.8	207.4	278.9	304.2
90°	1.3	94.7	197.0	268.2	293.0
92.5°	0.8	91.8	192.8	263.3	287.3
95°	0.0	89.0	190.7	260.4	284.4
97.5°	0.0	86.1	185.7	256.2	281.0
100°	0.0	84.8	182.1	249.9	273.9
102.5°	0.0	82.7	177.9	244.2	268.2
105°	0.0	81.9	173.7	239.2	262.7
107.5°	0.0	80.4	169.3	233.0	256.2
110°	0.0	79.1	165.9	227.2	249.9



TEST NUMBER: P284698

CATALOG NUMBER: 4SNLED-LD5-35SL-SLW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	77.7	162.3	221.7	243.4
115°	0.0	76.2	158.1	215.2	236.4
117.5°	0.0	74.1	153.9	209.0	230.1
120°	0.0	71.2	149.7	203.2	223.1
122.5°	0.0	68.4	145.3	196.2	215.2
125°	0.0	65.7	140.4	189.9	208.2
127.5°	0.0	61.3	134.9	182.9	199.8
130°	0.0	57.1	127.8	175.8	192.0
132.5°	0.8	53.0	120.8	168.0	184.2
135°	0.0	48.8	113.0	160.2	175.1
137.5°	0.0	45.1	104.4	151.8	165.9
140°	0.0	41.0	96.0	141.9	156.8
142.5°	0.0	36.0	87.6	131.2	146.9
145°	0.0	31.8	79.1	120.0	137.0
147.5°	0.8	28.2	71.2	108.0	126.3
150°	0.8	25.3	63.6	96.0	114.3
152.5°	0.8	22.7	55.8	84.8	102.3
155°	0.8	19.8	48.8	73.3	91.1
157.5°	0.8	17.0	41.0	62.1	79.1
160°	0.8	14.9	33.9	52.2	67.8
162.5°	0.8	12.8	27.6	41.0	55.8
165°	0.8	10.7	21.9	30.3	43.0
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)