

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: P284571

Luminaire Tested: **2SNLED-LD5-20SL-SLW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284571
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: 2SNLED-LD5-20SL-SLW-UNV-L850-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2014.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

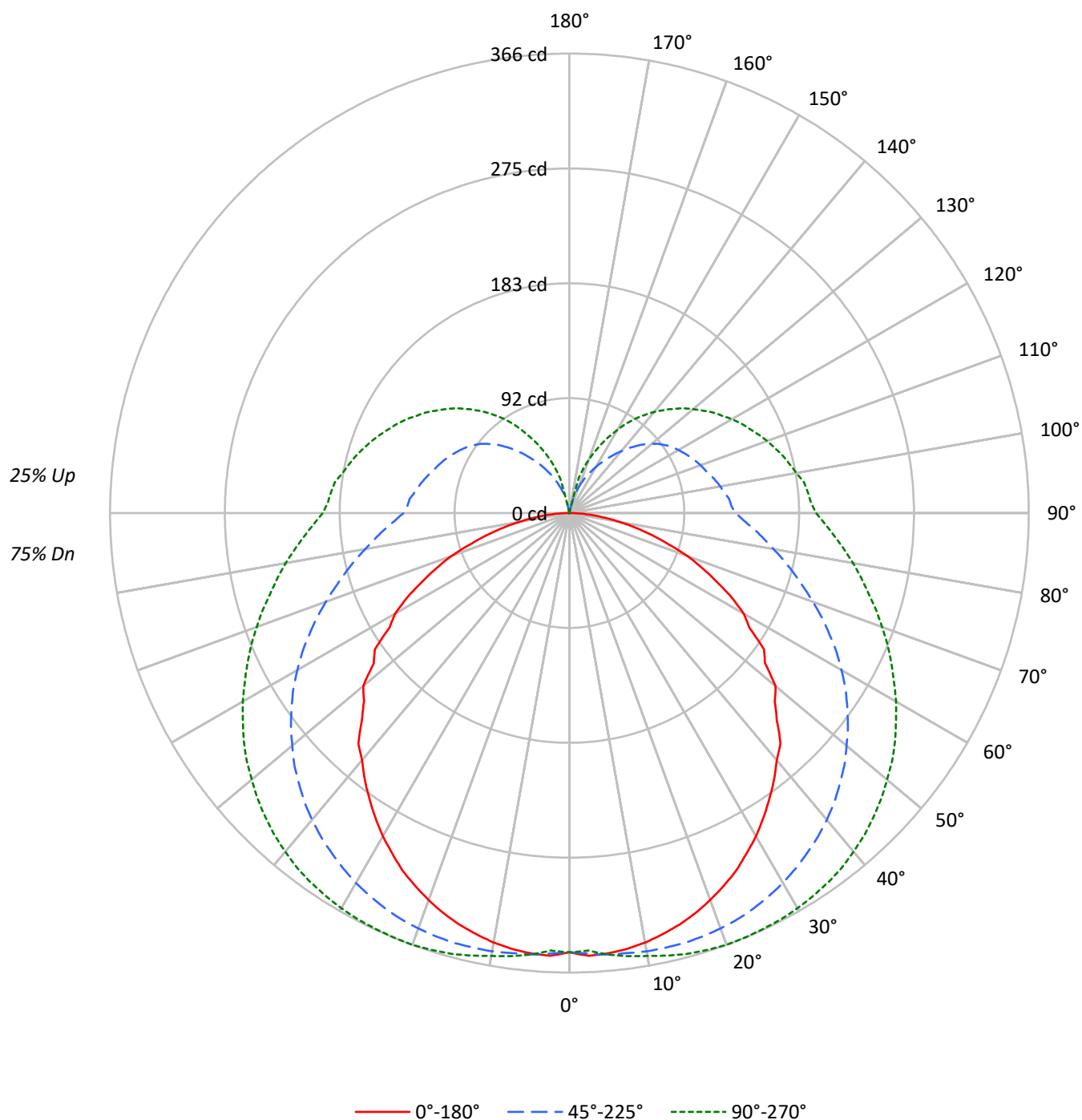
Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5653	5653	5653
5°	5681	5576	5545
10°	5639	5517	5514
15°	5584	5477	5526
20°	5516	5443	5537
25°	5446	5414	5545
30°	5353	5386	5575
35°	5251	5357	5612
40°	5150	5342	5649
45°	5030	5318	5693
50°	5017	5293	5740
55°	4897	5279	5808
60°	4678	5266	5886
65°	4370	5254	5996
70°	4029	5270	6165
75°	3453	5359	6414
80°	2797	5576	6827
85°	1893	6030	7431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	1.7
10°-20°	99.6	4.9
20°-30°	158.3	7.9
30°-40°	203.2	10.1
40°-50°	229.5	11.4
50°-60°	234.2	11.6
60°-70°	217.0	10.8
70°-80°	183.7	9.1
80°-90°	146.6	7.3
90°-100°	124.5	6.2
100°-110°	110.9	5.5
110°-120°	94.5	4.7
120°-130°	75.0	3.7
130°-140°	53.2	2.6
140°-150°	31.8	1.6
150°-160°	14.8	0.7
160°-170°	3.5	0.2
170°-180°	0.0	0.0
0°-30°	291.6	14.5
0°-40°	494.8	24.6
0°-60°	958.5	47.6
0°-90°	1505.7	74.8
90°-120°	329.9	16.4
90°-150°	489.9	24.3
90°-180°	508.0	25.2
0°-180°	2014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	350	350	350	350	350	
5°	352	349	353	353	353	33
15°	339	342	354	361	364	96
25°	314	325	347	360	365	145
35°	278	298	330	351	359	174
45°	234	266	305	331	343	182
55°	189	221	270	303	317	166
65°	130	173	229	268	283	129
75°	68	121	185	230	247	73
85°	18	78	148	195	212	19
90°	1	64	132	180	196	1
95°	0	60	128	175	191	0
105°	0	55	116	160	176	0
115°	0	51	106	144	158	0
125°	0	44	94	127	140	0
135°	0	33	76	107	117	0
145°	0	21	53	80	92	0
155°	0	13	33	49	61	0
165°	0	7	15	20	29	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°	349.8	349.8	349.8	349.8	349.8
2.5°	353.0	349.3	351.2	350.7	348.8
5°	352.1	349.3	353.0	353.0	353.0
7.5°	350.2	348.3	353.5	355.4	355.9
10°	347.4	347.4	354.5	357.3	358.2
12.5°	343.5	344.9	354.5	358.7	361.0
15°	339.3	342.1	354.5	361.0	363.5
17.5°	334.1	338.8	353.5	361.5	364.9
20°	328.0	335.1	352.1	361.5	365.9
22.5°	321.3	330.4	350.2	360.6	365.9
25°	314.3	324.6	347.4	359.6	365.4
27.5°	305.7	319.0	344.0	358.2	364.9
30°	297.2	312.4	340.2	356.3	363.5
32.5°	287.7	305.2	335.5	353.5	361.5
35°	277.8	298.2	330.4	350.7	359.2
37.5°	267.8	289.6	325.1	346.9	356.3
40°	256.9	281.1	319.0	342.1	352.1
42.5°	248.9	272.1	312.4	337.4	347.9
45°	233.8	265.5	304.7	331.3	342.6
47.5°	222.0	252.7	297.2	325.1	336.9
50°	214.4	242.3	288.2	318.0	330.4
52.5°	196.4	235.2	279.7	311.0	324.1
55°	189.3	221.1	270.2	303.3	316.6
57.5°	169.9	211.1	260.8	294.9	308.5
60°	160.4	197.3	250.3	286.3	300.5
62.5°	145.7	185.6	240.0	276.9	291.6
65°	129.6	172.8	228.6	267.8	283.0
67.5°	114.6	160.0	217.7	258.4	274.4
70°	99.9	146.7	206.4	248.9	265.0
72.5°	82.8	133.5	195.4	240.0	256.1
75°	68.2	120.7	185.0	230.5	246.6
77.5°	53.9	108.4	175.1	222.0	238.0
80°	40.7	96.5	165.1	213.0	229.5
82.5°	28.4	86.6	156.2	204.5	220.6
85°	17.5	77.6	147.6	195.4	212.0
87.5°	8.0	69.6	139.1	187.0	204.0
90°	0.9	63.5	132.1	179.8	196.4
92.5°	0.5	61.6	129.2	176.5	192.6
95°	0.0	59.6	127.8	174.6	190.7
97.5°	0.0	57.7	124.5	171.8	188.4
100°	0.0	56.8	122.1	167.6	183.6
102.5°	0.0	55.4	119.3	163.7	179.8
105°	0.0	54.9	116.5	160.4	176.1
107.5°	0.0	53.9	113.5	156.2	171.8
110°	0.0	53.0	111.2	152.4	167.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	52.1	108.8	148.7	163.2
115°	0.0	51.1	106.0	144.3	158.5
117.5°	0.0	49.7	103.2	140.1	154.3
120°	0.0	47.8	100.4	136.3	149.5
122.5°	0.0	45.8	97.4	131.5	144.3
125°	0.0	44.1	94.1	127.3	139.6
127.5°	0.0	41.1	90.4	122.6	134.0
130°	0.0	38.3	85.7	117.9	128.7
132.5°	0.5	35.5	81.0	112.6	123.5
135°	0.0	32.7	75.7	107.4	117.4
137.5°	0.0	30.3	70.0	101.8	111.2
140°	0.0	27.5	64.4	95.1	105.1
142.5°	0.0	24.1	58.7	88.0	98.5
145°	0.0	21.3	53.0	80.5	91.8
147.5°	0.5	18.9	47.8	72.4	84.7
150°	0.5	17.0	42.7	64.4	76.6
152.5°	0.5	15.2	37.4	56.8	68.6
155°	0.5	13.3	32.7	49.2	61.0
157.5°	0.5	11.4	27.5	41.6	53.0
160°	0.5	10.0	22.7	35.0	45.5
162.5°	0.5	8.6	18.5	27.5	37.4
165°	0.5	7.2	14.7	20.3	28.9
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)