

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: P284531

Luminaire Tested: **2SNLED-LD5-16SL-SLW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284531
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-LD5-16SL-SLW-UNV-L840-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1631.0 lumens
Efficiency: N/A
Efficacy: 116.5 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

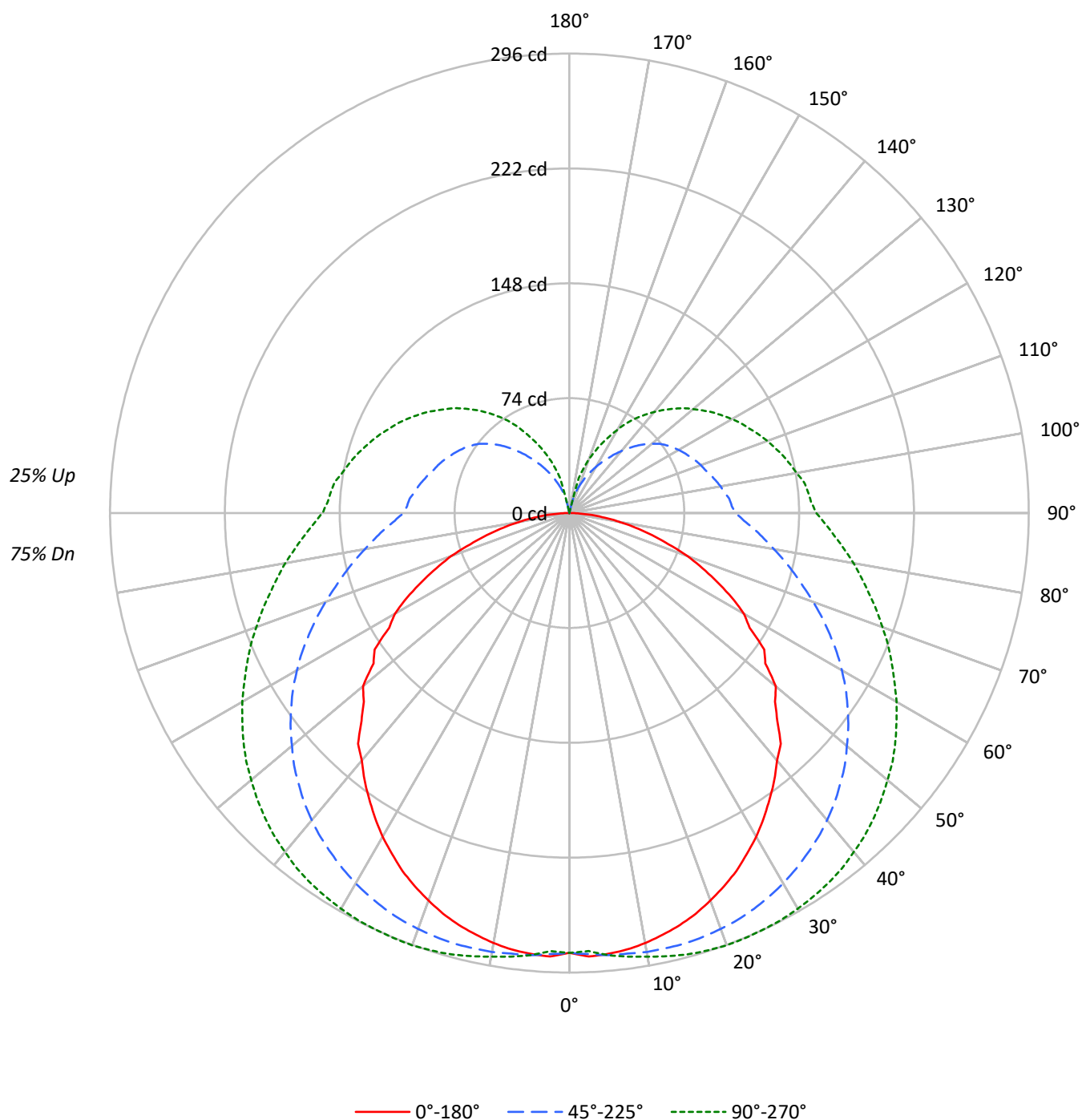
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	4579	4579	4579
5°	4600	4516	4491
10°	4566	4468	4465
15°	4522	4436	4474
20°	4467	4407	4484
25°	4410	4383	4491
30°	4336	4362	4514
35°	4251	4339	4545
40°	4172	4326	4574
45°	4074	4307	4612
50°	4062	4287	4649
55°	3966	4275	4703
60°	3789	4265	4768
65°	3541	4254	4856
70°	3263	4267	4992
75°	2795	4343	5194
80°	2268	4515	5530
85°	1536	4886	6018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.2	1.7
10°-20°	80.7	4.9
20°-30°	128.2	7.9
30°-40°	164.6	10.1
40°-50°	185.9	11.4
50°-60°	189.6	11.6
60°-70°	175.7	10.8
70°-80°	148.7	9.1
80°-90°	118.7	7.3
90°-100°	100.8	6.2
100°-110°	89.8	5.5
110°-120°	76.5	4.7
120°-130°	60.8	3.7
130°-140°	43.1	2.6
140°-150°	25.7	1.6
150°-160°	12.0	0.7
160°-170°	2.8	0.2
170°-180°	0.0	0.0
0°-30°	236.1	14.5
0°-40°	400.7	24.6
0°-60°	776.2	47.6
0°-90°	1219.4	74.8
90°-120°	267.1	16.4
90°-150°	396.8	24.3
90°-180°	412.0	25.3
0°-180°	1631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	285	283	286	286	286	27
15°	275	277	287	292	294	78
25°	254	263	281	291	296	117
35°	225	242	268	284	291	141
45°	189	215	247	268	278	147
55°	153	179	219	246	256	135
65°	105	140	185	217	229	104
75°	55	98	150	187	200	59
85°	14	63	120	158	172	15
90°	1	51	107	146	159	1
95°	0	48	104	141	154	0
105°	0	44	94	130	143	0
115°	0	41	86	117	128	0
125°	0	36	76	103	113	0
135°	0	26	61	87	95	0
145°	0	17	43	65	74	0
155°	0	11	26	40	49	0
165°	0	6	12	16	23	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°	283.3	283.3	283.3	283.3	283.3
2.5°	285.9	282.9	284.4	284.0	282.4
5°	285.1	282.9	285.9	285.9	285.9
7.5°	283.6	282.0	286.3	287.8	288.2
10°	281.3	281.3	287.1	289.4	290.1
12.5°	278.2	279.3	287.1	290.5	292.4
15°	274.8	277.1	287.1	292.4	294.3
17.5°	270.6	274.4	286.3	292.8	295.5
20°	265.6	271.4	285.1	292.8	296.3
22.5°	260.2	267.6	283.6	292.1	296.3
25°	254.5	262.9	281.3	291.2	295.9
27.5°	247.6	258.3	278.6	290.1	295.5
30°	240.7	253.0	275.5	288.5	294.3
32.5°	233.0	247.2	271.7	286.3	292.8
35°	224.9	241.5	267.6	284.0	290.9
37.5°	216.9	234.6	263.3	280.9	288.5
40°	208.1	227.6	258.3	277.1	285.1
42.5°	201.6	220.4	253.0	273.2	281.7
45°	189.4	215.0	246.8	268.3	277.5
47.5°	179.7	204.7	240.7	263.3	272.8
50°	173.6	196.2	233.4	257.5	267.6
52.5°	159.1	190.5	226.5	251.8	262.5
55°	153.3	179.0	218.8	245.6	256.4
57.5°	137.6	171.0	211.2	238.8	249.9
60°	129.9	159.8	202.7	231.9	243.4
62.5°	118.0	150.3	194.3	224.2	236.1
65°	105.0	139.9	185.1	216.9	229.2
67.5°	92.8	129.6	176.3	209.2	222.3
70°	80.9	118.8	167.1	201.6	214.6
72.5°	67.0	108.1	158.2	194.3	207.4
75°	55.2	97.7	149.9	186.7	199.7
77.5°	43.6	87.8	141.8	179.7	192.8
80°	33.0	78.2	133.7	172.5	185.9
82.5°	23.0	70.1	126.5	165.6	178.6
85°	14.2	62.9	119.6	158.2	171.7
87.5°	6.5	56.4	112.6	151.4	165.2
90°	0.7	51.4	106.9	145.6	159.1
92.5°	0.4	49.8	104.7	142.9	156.0
95°	0.0	48.3	103.5	141.4	154.4
97.5°	0.0	46.7	100.8	139.1	152.5
100°	0.0	46.0	98.9	135.7	148.7
102.5°	0.0	44.9	96.6	132.6	145.6
105°	0.0	44.5	94.3	129.9	142.6
107.5°	0.0	43.6	91.9	126.5	139.1
110°	0.0	42.9	90.1	123.4	135.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	42.2	88.1	120.4	132.2
115°	0.0	41.4	85.8	116.9	128.3
117.5°	0.0	40.2	83.6	113.5	124.9
120°	0.0	38.7	81.3	110.4	121.1
122.5°	0.0	37.1	78.9	106.5	116.9
125°	0.0	35.7	76.2	103.1	113.0
127.5°	0.0	33.3	73.2	99.3	108.5
130°	0.0	31.0	69.4	95.5	104.2
132.5°	0.4	28.8	65.6	91.2	100.0
135°	0.0	26.5	61.3	87.0	95.0
137.5°	0.0	24.5	56.7	82.4	90.1
140°	0.0	22.2	52.1	77.0	85.1
142.5°	0.0	19.5	47.6	71.3	79.7
145°	0.0	17.3	42.9	65.2	74.4
147.5°	0.4	15.3	38.7	58.6	68.6
150°	0.4	13.8	34.5	52.1	62.1
152.5°	0.4	12.3	30.3	46.0	55.5
155°	0.4	10.8	26.5	39.8	49.4
157.5°	0.4	9.2	22.2	33.7	42.9
160°	0.4	8.1	18.4	28.3	36.8
162.5°	0.4	6.9	15.0	22.2	30.3
165°	0.4	5.8	11.9	16.4	23.4
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)