

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: P284501

Luminaire Tested: **4SNLED-LD5-29SL-SLW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284501
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-LD5-29SL-SLW-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2919.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

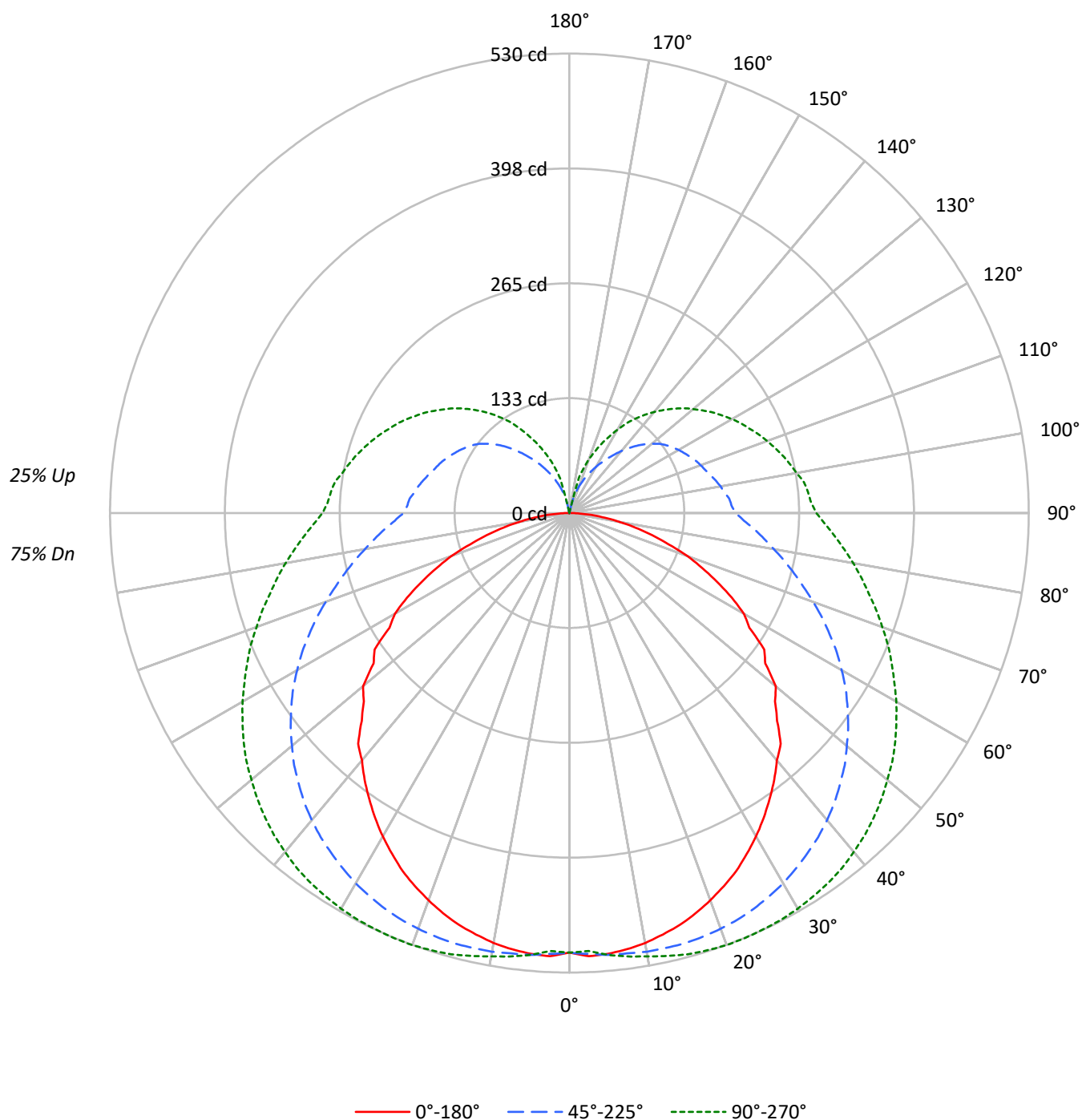
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4097	4097	4097
5°	4128	4048	4018
10°	4109	4013	3996
15°	4080	3991	4004
20°	4041	3973	4012
25°	4003	3959	4019
30°	3948	3946	4040
35°	3887	3932	4068
40°	3828	3930	4094
45°	3756	3920	4126
50°	3767	3912	4159
55°	3699	3912	4209
60°	3565	3914	4265
65°	3367	3919	4345
70°	3149	3948	4468
75°	2763	4039	4648
80°	2332	4233	4947
85°	1735	4629	5386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	1.7
10°-20°	144.4	4.9
20°-30°	229.5	7.9
30°-40°	294.5	10.1
40°-50°	332.6	11.4
50°-60°	339.4	11.6
60°-70°	314.4	10.8
70°-80°	266.2	9.1
80°-90°	212.5	7.3
90°-100°	180.4	6.2
100°-110°	160.8	5.5
110°-120°	136.9	4.7
120°-130°	108.7	3.7
130°-140°	77.2	2.6
140°-150°	46.1	1.6
150°-160°	21.5	0.7
160°-170°	5.1	0.2
170°-180°	0.0	0.0
0°-30°	422.6	14.5
0°-40°	717.2	24.6
0°-60°	1389.2	47.6
0°-90°	2182.3	74.8
90°-120°	478.1	16.4
90°-150°	710.1	24.3
90°-180°	737.0	25.2
0°-180°	2919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	510	506	512	512	512	48
15°	492	496	514	523	527	139
25°	456	470	504	521	530	210
35°	403	432	479	508	521	252
45°	339	385	442	480	497	263
55°	274	320	392	440	459	241
65°	188	250	331	388	410	186
75°	99	175	268	334	357	105
85°	25	112	214	283	307	28
90°	1	92	191	261	285	2
95°	0	86	185	253	276	0
105°	0	80	169	232	255	0
115°	0	74	154	209	230	0
125°	0	64	136	184	202	0
135°	0	47	110	156	170	0
145°	0	31	77	117	133	0
155°	1	19	47	71	88	0
165°	1	10	21	29	42	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°	507.0	507.0	507.0	507.0	507.0
2.5°	511.6	506.2	509.0	508.3	505.5
5°	510.3	506.2	511.6	511.6	511.6
7.5°	507.5	504.8	512.3	515.1	515.9
10°	503.5	503.5	513.8	517.9	519.2
12.5°	497.9	499.9	513.8	519.9	523.3
15°	491.8	495.9	513.8	523.3	526.8
17.5°	484.2	491.1	512.3	524.0	528.8
20°	475.3	485.7	510.3	524.0	530.3
22.5°	465.7	478.8	507.5	522.7	530.3
25°	455.5	470.5	503.5	521.2	529.6
27.5°	443.1	462.4	498.6	519.2	528.8
30°	430.7	452.7	493.1	516.4	526.8
32.5°	417.0	442.4	486.2	512.3	524.0
35°	402.6	432.2	478.8	508.3	520.7
37.5°	388.1	419.8	471.3	502.7	516.4
40°	372.4	407.4	462.4	495.9	510.3
42.5°	360.8	394.4	452.7	489.0	504.2
45°	338.9	384.8	441.6	480.1	496.6
47.5°	321.7	366.3	430.7	471.3	488.3
50°	310.8	351.1	417.8	460.9	478.8
52.5°	284.7	340.9	405.4	450.7	469.8
55°	274.3	320.4	391.7	439.6	458.9
57.5°	246.2	306.0	378.0	427.4	447.2
60°	232.5	286.0	362.8	415.0	435.5
62.5°	211.2	268.9	347.8	401.3	422.6
65°	187.9	250.4	331.3	388.1	410.2
67.5°	166.0	231.9	315.6	374.4	397.8
70°	144.7	212.7	299.1	360.8	384.1
72.5°	119.9	193.4	283.2	347.8	371.1
75°	98.8	174.9	268.2	334.1	357.4
77.5°	78.1	157.1	253.8	321.7	345.0
80°	59.0	139.9	239.3	308.7	332.6
82.5°	41.1	125.5	226.4	296.3	319.7
85°	25.4	112.5	214.0	283.2	307.3
87.5°	11.7	100.9	201.6	271.0	295.6
90°	1.3	92.0	191.4	260.6	284.7
92.5°	0.7	89.2	187.3	255.8	279.1
95°	0.0	86.4	185.3	253.0	276.3
97.5°	0.0	83.7	180.5	249.0	273.0
100°	0.0	82.4	177.0	242.8	266.2
102.5°	0.0	80.3	172.9	237.3	260.6
105°	0.0	79.6	168.8	232.5	255.2
107.5°	0.0	78.1	164.5	226.4	249.0
110°	0.0	76.8	161.2	220.8	242.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	75.5	157.7	215.5	236.6
115°	0.0	74.0	153.6	209.2	229.7
117.5°	0.0	72.0	149.6	203.0	223.6
120°	0.0	69.2	145.5	197.5	216.7
122.5°	0.0	66.4	141.2	190.6	209.2
125°	0.0	63.9	136.4	184.5	202.3
127.5°	0.0	59.6	131.0	177.7	194.2
130°	0.0	55.5	124.2	170.8	186.6
132.5°	0.7	51.5	117.4	163.3	179.0
135°	0.0	47.4	109.8	155.7	170.1
137.5°	0.0	43.9	101.4	147.5	161.2
140°	0.0	39.8	93.3	137.9	152.3
142.5°	0.0	35.0	85.1	127.5	142.7
145°	0.0	30.9	76.8	116.6	133.1
147.5°	0.7	27.4	69.2	104.9	122.7
150°	0.7	24.6	61.8	93.3	111.1
152.5°	0.7	22.0	54.2	82.4	99.4
155°	0.7	19.2	47.4	71.3	88.5
157.5°	0.7	16.5	39.8	60.3	76.8
160°	0.7	14.4	32.9	50.7	65.9
162.5°	0.7	12.4	26.8	39.8	54.2
165°	0.7	10.4	21.3	29.4	41.8
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)