

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: P284462

Luminaire Tested: **4SNLED-LD5-29SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284462
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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

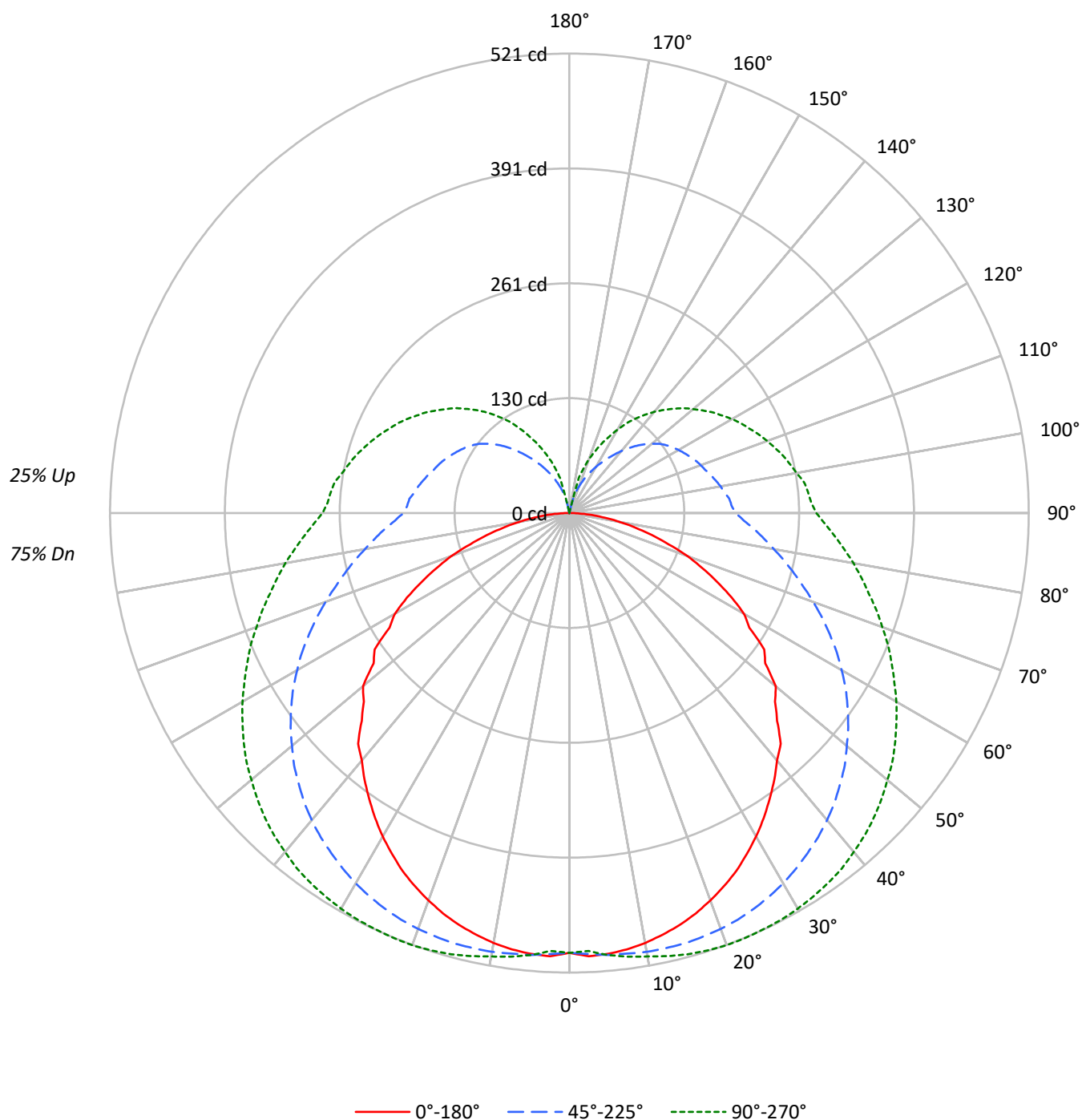
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97		88	88	88		79
1	100	94	89	84	95	89	84	80	80	76	73		72	69	66		64
2	90	80	72	66	85	76	69	63	68	63	58		61	57	53		55
3	81	69	60	53	76	66	58	51	59	53	47		53	48	43		47
4	74	61	51	44	69	58	49	43	52	45	39		47	41	36		42
5	67	54	44	37	63	51	43	36	46	39	33		42	35	31		37
6	62	48	39	32	58	46	37	31	41	34	29		37	31	27		34
7	57	43	34	28	54	41	33	27	37	30	25		34	28	23		30
8	53	39	31	25	50	37	29	24	34	27	22		31	25	21		28
9	49	36	27	22	47	34	26	21	31	24	20		28	23	18		26
10	46	33	25	20	44	31	24	19	29	22	18		26	21	16		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4028	4028	4028
5°	4059	3980	3951
10°	4040	3945	3929
15°	4011	3924	3937
20°	3973	3906	3945
25°	3936	3892	3951
30°	3882	3880	3972
35°	3821	3866	3999
40°	3764	3863	4025
45°	3693	3854	4057
50°	3704	3846	4089
55°	3637	3846	4137
60°	3505	3848	4194
65°	3310	3854	4272
70°	3096	3882	4392
75°	2718	3972	4570
80°	2297	4163	4864
85°	1701	4551	5294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.7
10°-20°	142.0	4.9
20°-30°	225.6	7.9
30°-40°	289.6	10.1
40°-50°	327.0	11.4
50°-60°	333.7	11.6
60°-70°	309.2	10.8
70°-80°	261.7	9.1
80°-90°	208.9	7.3
90°-100°	177.4	6.2
100°-110°	158.1	5.5
110°-120°	134.6	4.7
120°-130°	106.9	3.7
130°-140°	75.9	2.6
140°-150°	45.3	1.6
150°-160°	21.1	0.7
160°-170°	5.0	0.2
170°-180°	0.0	0.0
0°-30°	415.5	14.5
0°-40°	705.1	24.6
0°-60°	1365.8	47.6
0°-90°	2145.7	74.8
90°-120°	470.1	16.4
90°-150°	698.2	24.3
90°-180°	724.0	25.2
0°-180°	2870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	502	498	503	503	503	48
15°	484	488	505	514	518	136
25°	448	463	495	512	521	206
35°	396	425	471	500	512	248
45°	333	378	434	472	488	259
55°	270	315	385	432	451	237
65°	185	246	326	382	403	183
75°	97	172	264	328	351	103
85°	25	111	210	278	302	27
90°	1	90	188	256	280	2
95°	0	85	182	249	272	0
105°	0	78	166	229	251	0
115°	0	73	151	206	226	0
125°	0	63	134	181	199	0
135°	0	47	108	153	167	0
145°	0	30	76	115	131	0
155°	1	19	47	70	87	0
165°	1	10	21	29	41	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°	498.5	498.5	498.5	498.5	498.5
2.5°	503.0	497.7	500.5	499.7	497.0
5°	501.7	497.7	503.0	503.0	503.0
7.5°	499.0	496.3	503.7	506.5	507.2
10°	495.0	495.0	505.2	509.2	510.5
12.5°	489.5	491.5	505.2	511.2	514.5
15°	483.5	487.5	505.2	514.5	517.9
17.5°	476.1	482.8	503.7	515.2	519.9
20°	467.3	477.5	501.7	515.2	521.4
22.5°	457.9	470.8	499.0	513.9	521.4
25°	447.9	462.6	495.0	512.5	520.7
27.5°	435.7	454.6	490.3	510.5	519.9
30°	423.5	445.1	484.8	507.7	517.9
32.5°	410.0	435.0	478.1	503.7	515.2
35°	395.8	424.9	470.8	499.7	511.9
37.5°	381.6	412.7	463.3	494.3	507.7
40°	366.2	400.6	454.6	487.5	501.7
42.5°	354.7	387.8	445.1	480.8	495.7
45°	333.2	378.4	434.2	472.1	488.3
47.5°	316.3	360.2	423.5	463.3	480.1
50°	305.6	345.2	410.7	453.1	470.8
52.5°	279.9	335.2	398.6	443.1	461.9
55°	269.7	315.0	385.1	432.2	451.1
57.5°	242.0	300.8	371.6	420.2	439.7
60°	228.6	281.2	356.7	408.0	428.2
62.5°	207.6	264.4	342.0	394.5	415.5
65°	184.7	246.2	325.8	381.6	403.3
67.5°	163.2	228.0	310.3	368.2	391.1
70°	142.3	209.1	294.1	354.7	377.6
72.5°	117.9	190.2	278.4	342.0	364.9
75°	97.2	172.0	263.7	328.5	351.4
77.5°	76.8	154.5	249.5	316.3	339.2
80°	58.1	137.6	235.3	303.6	327.0
82.5°	40.4	123.4	222.6	291.4	314.3
85°	24.9	110.6	210.4	278.4	302.1
87.5°	11.5	99.2	198.2	266.4	290.6
90°	1.3	90.4	188.2	256.2	279.9
92.5°	0.7	87.7	184.2	251.5	274.4
95°	0.0	85.0	182.2	248.8	271.7
97.5°	0.0	82.3	177.4	244.8	268.4
100°	0.0	81.0	174.0	238.8	261.7
102.5°	0.0	79.0	170.0	233.3	256.2
105°	0.0	78.3	166.0	228.6	251.0
107.5°	0.0	76.8	161.8	222.6	244.8
110°	0.0	75.5	158.5	217.1	238.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	74.3	155.1	211.8	232.6
115°	0.0	72.8	151.0	205.6	225.8
117.5°	0.0	70.8	147.0	199.6	219.8
120°	0.0	68.1	143.0	194.2	213.1
122.5°	0.0	65.3	138.9	187.4	205.6
125°	0.0	62.8	134.1	181.4	198.9
127.5°	0.0	58.6	128.8	174.7	190.9
130°	0.0	54.6	122.1	168.0	183.4
132.5°	0.7	50.6	115.4	160.5	176.0
135°	0.0	46.6	107.9	153.1	167.2
137.5°	0.0	43.1	99.7	145.0	158.5
140°	0.0	39.1	91.7	135.6	149.8
142.5°	0.0	34.4	83.7	125.4	140.3
145°	0.0	30.4	75.5	114.7	130.8
147.5°	0.7	26.9	68.1	103.2	120.7
150°	0.7	24.2	60.8	91.7	109.2
152.5°	0.7	21.7	53.3	81.0	97.7
155°	0.7	18.9	46.6	70.1	87.0
157.5°	0.7	16.2	39.1	59.3	75.5
160°	0.7	14.2	32.4	49.9	64.8
162.5°	0.7	12.2	26.4	39.1	53.3
165°	0.7	10.2	20.9	28.9	41.1
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)