

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: P284460

Luminaire Tested: **4SNLED-LD5-22SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284460
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-LD5-22SL-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: 2171.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

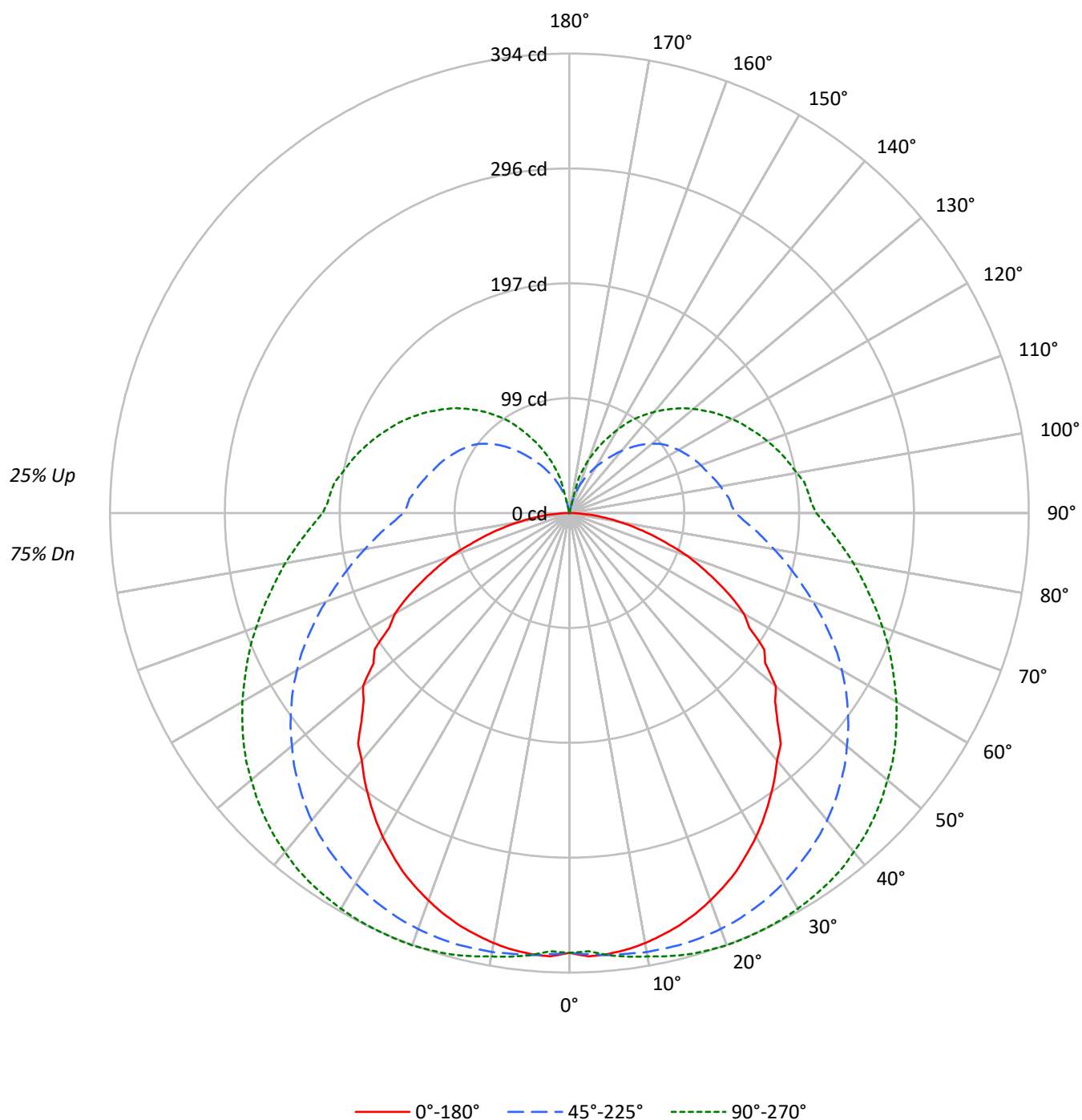
Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3047	3047	3047
5°	3070	3011	2988
10°	3055	2985	2972
15°	3035	2969	2978
20°	3006	2954	2984
25°	2977	2944	2989
30°	2936	2935	3005
35°	2890	2924	3025
40°	2847	2923	3044
45°	2794	2916	3069
50°	2801	2909	3093
55°	2751	2909	3130
60°	2651	2911	3172
65°	2503	2914	3232
70°	2343	2937	3323
75°	2055	3005	3457
80°	1735	3149	3680
85°	1291	3441	4005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	1.7
10°-20°	107.4	4.9
20°-30°	170.7	7.9
30°-40°	219.1	10.1
40°-50°	247.4	11.4
50°-60°	252.4	11.6
60°-70°	233.9	10.8
70°-80°	198.0	9.1
80°-90°	158.0	7.3
90°-100°	134.2	6.2
100°-110°	119.6	5.5
110°-120°	101.8	4.7
120°-130°	80.9	3.7
130°-140°	57.4	2.6
140°-150°	34.3	1.6
150°-160°	16.0	0.7
160°-170°	3.8	0.2
170°-180°	0.0	0.0
0°-30°	314.3	14.5
0°-40°	533.4	24.6
0°-60°	1033.2	47.6
0°-90°	1623.1	74.8
90°-120°	355.6	16.4
90°-150°	528.1	24.3
90°-180°	548.0	25.2
0°-180°	2171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	377	377	377	377	377	
5°	380	376	380	380	380	36
15°	366	369	382	389	392	103
25°	339	350	374	388	394	156
35°	299	321	356	378	387	187
45°	252	286	328	357	369	196
55°	204	238	291	327	341	179
65°	140	186	246	289	305	139
75°	74	130	200	248	266	78
85°	19	84	159	211	228	21
90°	1	68	142	194	212	2
95°	0	64	138	188	206	0
105°	0	59	126	173	190	0
115°	0	55	114	156	171	0
125°	0	48	102	137	150	0
135°	0	35	82	116	126	0
145°	0	23	57	87	99	0
155°	1	14	35	53	66	0
165°	1	8	16	22	31	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°	377.1	377.1	377.1	377.1	377.1
2.5°	380.5	376.5	378.6	378.0	376.0
5°	379.5	376.5	380.5	380.5	380.5
7.5°	377.5	375.4	381.1	383.1	383.7
10°	374.4	374.4	382.2	385.2	386.1
12.5°	370.3	371.8	382.2	386.7	389.2
15°	365.8	368.8	382.2	389.2	391.8
17.5°	360.1	365.2	381.1	389.7	393.3
20°	353.5	361.2	379.5	389.7	394.4
22.5°	346.4	356.1	377.5	388.8	394.4
25°	338.8	349.9	374.4	387.7	393.9
27.5°	329.6	343.9	370.9	386.1	393.3
30°	320.3	336.7	366.7	384.1	391.8
32.5°	310.2	329.0	361.6	381.1	389.7
35°	299.4	321.4	356.1	378.0	387.2
37.5°	288.7	312.2	350.5	373.9	384.1
40°	277.0	303.0	343.9	368.8	379.5
42.5°	268.3	293.4	336.7	363.7	375.0
45°	252.1	286.2	328.5	357.1	369.4
47.5°	239.3	272.4	320.3	350.5	363.2
50°	231.1	261.1	310.7	342.8	356.1
52.5°	211.7	253.6	301.5	335.2	349.4
55°	204.0	238.3	291.3	327.0	341.3
57.5°	183.1	227.6	281.1	317.9	332.6
60°	172.9	212.7	269.8	308.6	323.9
62.5°	157.1	200.0	258.7	298.5	314.3
65°	139.7	186.3	246.4	288.7	305.1
67.5°	123.5	172.5	234.7	278.5	295.8
70°	107.7	158.2	222.5	268.3	285.7
72.5°	89.2	143.9	210.6	258.7	276.0
75°	73.5	130.1	199.5	248.5	265.8
77.5°	58.1	116.9	188.7	239.3	256.6
80°	43.9	104.1	178.0	229.6	247.4
82.5°	30.6	93.3	168.4	220.4	237.7
85°	18.9	83.7	159.1	210.6	228.5
87.5°	8.7	75.0	149.9	201.5	219.8
90°	1.0	68.4	142.3	193.8	211.7
92.5°	0.6	66.4	139.3	190.3	207.6
95°	0.0	64.3	137.8	188.2	205.5
97.5°	0.0	62.2	134.2	185.2	203.1
100°	0.0	61.3	131.6	180.6	198.0
102.5°	0.0	59.7	128.6	176.5	193.8
105°	0.0	59.2	125.5	172.9	189.8
107.5°	0.0	58.1	122.4	168.4	185.2
110°	0.0	57.1	119.9	164.2	180.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	56.2	117.3	160.2	175.9
115°	0.0	55.1	114.3	155.6	170.8
117.5°	0.0	53.6	111.2	151.0	166.3
120°	0.0	51.5	108.2	146.9	161.2
122.5°	0.0	49.4	105.0	141.8	155.6
125°	0.0	47.5	101.5	137.3	150.5
127.5°	0.0	44.3	97.5	132.2	144.4
130°	0.0	41.3	92.4	127.1	138.8
132.5°	0.6	38.3	87.3	121.4	133.1
135°	0.0	35.2	81.6	115.8	126.5
137.5°	0.0	32.6	75.4	109.7	119.9
140°	0.0	29.6	69.4	102.6	113.3
142.5°	0.0	26.0	63.3	94.9	106.1
145°	0.0	23.0	57.1	86.7	99.0
147.5°	0.6	20.4	51.5	78.1	91.3
150°	0.6	18.3	46.0	69.4	82.6
152.5°	0.6	16.4	40.3	61.3	73.9
155°	0.6	14.3	35.2	53.0	65.8
157.5°	0.6	12.3	29.6	44.9	57.1
160°	0.6	10.7	24.5	37.7	49.0
162.5°	0.6	9.2	20.0	29.6	40.3
165°	0.6	7.7	15.8	21.9	31.1
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)