

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: P284461

Luminaire Tested: **4SNLED-LD5-25SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284461
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-LD5-25SL-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: 2476.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

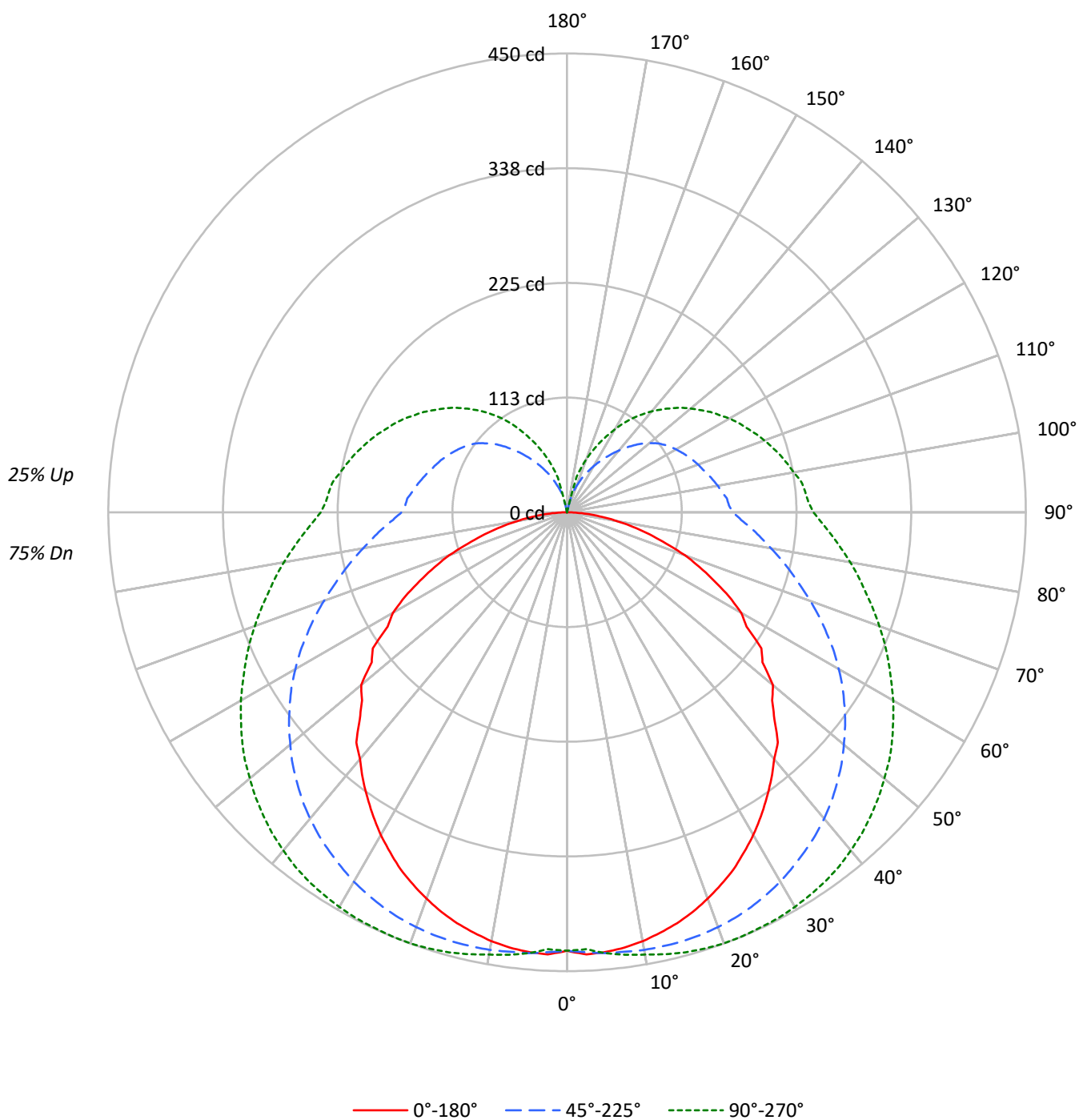
Input Watts (W): 21
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3475	3475	3475
5°	3502	3434	3409
10°	3485	3403	3389
15°	3461	3385	3396
20°	3428	3370	3403
25°	3396	3358	3409
30°	3348	3348	3427
35°	3297	3336	3450
40°	3247	3333	3473
45°	3186	3325	3500
50°	3195	3318	3528
55°	3138	3318	3570
60°	3024	3320	3618
65°	2857	3324	3685
70°	2672	3349	3790
75°	2343	3426	3943
80°	1980	3591	4196
85°	1469	3926	4567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.7
10°-20°	122.5	4.9
20°-30°	194.7	7.9
30°-40°	249.8	10.1
40°-50°	282.1	11.4
50°-60°	287.9	11.6
60°-70°	266.7	10.8
70°-80°	225.8	9.1
80°-90°	180.2	7.3
90°-100°	153.1	6.2
100°-110°	136.4	5.5
110°-120°	116.2	4.7
120°-130°	92.2	3.7
130°-140°	65.4	2.6
140°-150°	39.1	1.6
150°-160°	18.2	0.7
160°-170°	4.3	0.2
170°-180°	0.0	0.0
0°-30°	358.5	14.5
0°-40°	608.3	24.6
0°-60°	1178.4	47.6
0°-90°	1851.1	74.8
90°-120°	405.6	16.4
90°-150°	602.3	24.3
90°-180°	625.0	25.2
0°-180°	2476.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	430	430	430	430	430	
5°	433	429	434	434	434	41
15°	417	421	436	444	447	118
25°	386	399	427	442	449	178
35°	342	367	406	431	442	214
45°	288	326	375	407	421	223
55°	233	272	332	373	389	204
65°	159	212	281	329	348	158
75°	84	148	228	283	303	89
85°	22	96	182	240	261	23
90°	1	78	162	221	242	2
95°	0	73	157	215	234	0
105°	0	68	143	197	216	0
115°	0	63	130	177	195	0
125°	0	54	116	156	172	0
135°	0	40	93	132	144	0
145°	0	26	65	99	113	0
155°	1	16	40	60	75	0
165°	1	9	18	25	36	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°	430.0	430.0	430.0	430.0	430.0
2.5°	434.0	429.4	431.8	431.1	428.8
5°	432.9	429.4	434.0	434.0	434.0
7.5°	430.5	428.2	434.6	436.9	437.6
10°	427.1	427.1	435.8	439.3	440.4
12.5°	422.3	424.1	435.8	441.0	443.9
15°	417.2	420.6	435.8	443.9	446.8
17.5°	410.7	416.5	434.6	444.5	448.6
20°	403.2	412.0	432.9	444.5	449.8
22.5°	395.0	406.2	430.5	443.4	449.8
25°	386.4	399.1	427.1	442.1	449.2
27.5°	375.9	392.2	423.0	440.4	448.6
30°	365.3	384.0	418.3	438.0	446.8
32.5°	353.7	375.2	412.4	434.6	444.5
35°	341.5	366.6	406.2	431.1	441.7
37.5°	329.2	356.1	399.7	426.4	438.0
40°	315.9	345.6	392.2	420.6	432.9
42.5°	306.0	334.6	384.0	414.8	427.7
45°	287.5	326.4	374.6	407.3	421.2
47.5°	272.9	310.7	365.3	399.7	414.2
50°	263.6	297.8	354.4	390.9	406.2
52.5°	241.5	289.2	343.8	382.3	398.5
55°	232.7	271.8	332.2	372.9	389.2
57.5°	208.8	259.5	320.6	362.5	379.3
60°	197.2	242.6	307.7	352.0	369.4
62.5°	179.1	228.1	295.0	340.4	358.4
65°	159.4	212.4	281.0	329.2	347.9
67.5°	140.8	196.7	267.7	317.6	337.4
70°	122.8	180.4	253.7	306.0	325.8
72.5°	101.7	164.1	240.2	295.0	314.8
75°	83.8	148.4	227.5	283.4	303.2
77.5°	66.3	133.3	215.3	272.9	292.7
80°	50.1	118.7	203.0	261.9	282.1
82.5°	34.9	106.4	192.0	251.4	271.1
85°	21.5	95.5	181.5	240.2	260.6
87.5°	9.9	85.6	171.0	229.9	250.7
90°	1.1	78.0	162.3	221.1	241.5
92.5°	0.6	75.7	158.9	217.0	236.8
95°	0.0	73.3	157.2	214.6	234.4
97.5°	0.0	71.0	153.1	211.2	231.6
100°	0.0	69.9	150.1	206.0	225.8
102.5°	0.0	68.1	146.6	201.3	221.1
105°	0.0	67.5	143.2	197.2	216.5
107.5°	0.0	66.3	139.6	192.0	211.2
110°	0.0	65.2	136.8	187.3	206.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	64.1	133.8	182.8	200.7
115°	0.0	62.8	130.3	177.4	194.8
117.5°	0.0	61.1	126.9	172.2	189.7
120°	0.0	58.7	123.4	167.5	183.9
122.5°	0.0	56.4	119.8	161.7	177.4
125°	0.0	54.2	115.7	156.5	171.6
127.5°	0.0	50.6	111.2	150.7	164.7
130°	0.0	47.1	105.3	144.9	158.3
132.5°	0.6	43.6	99.5	138.5	151.8
135°	0.0	40.2	93.1	132.0	144.3
137.5°	0.0	37.2	86.0	125.1	136.8
140°	0.0	33.8	79.1	117.0	129.2
142.5°	0.0	29.7	72.2	108.2	121.1
145°	0.0	26.2	65.2	98.9	112.9
147.5°	0.6	23.2	58.7	89.0	104.1
150°	0.6	20.9	52.4	79.1	94.2
152.5°	0.6	18.7	46.0	69.9	84.3
155°	0.6	16.3	40.2	60.4	75.0
157.5°	0.6	14.0	33.8	51.2	65.2
160°	0.6	12.2	27.9	43.0	55.9
162.5°	0.6	10.5	22.8	33.8	46.0
165°	0.6	8.8	18.1	25.0	35.5
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)