

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: P284466

Luminaire Tested: **4SNLED-LD5-41SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284466
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-LD5-41SL-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: 4064.0 lumens
Efficiency: N/A
Efficacy: 106.9 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

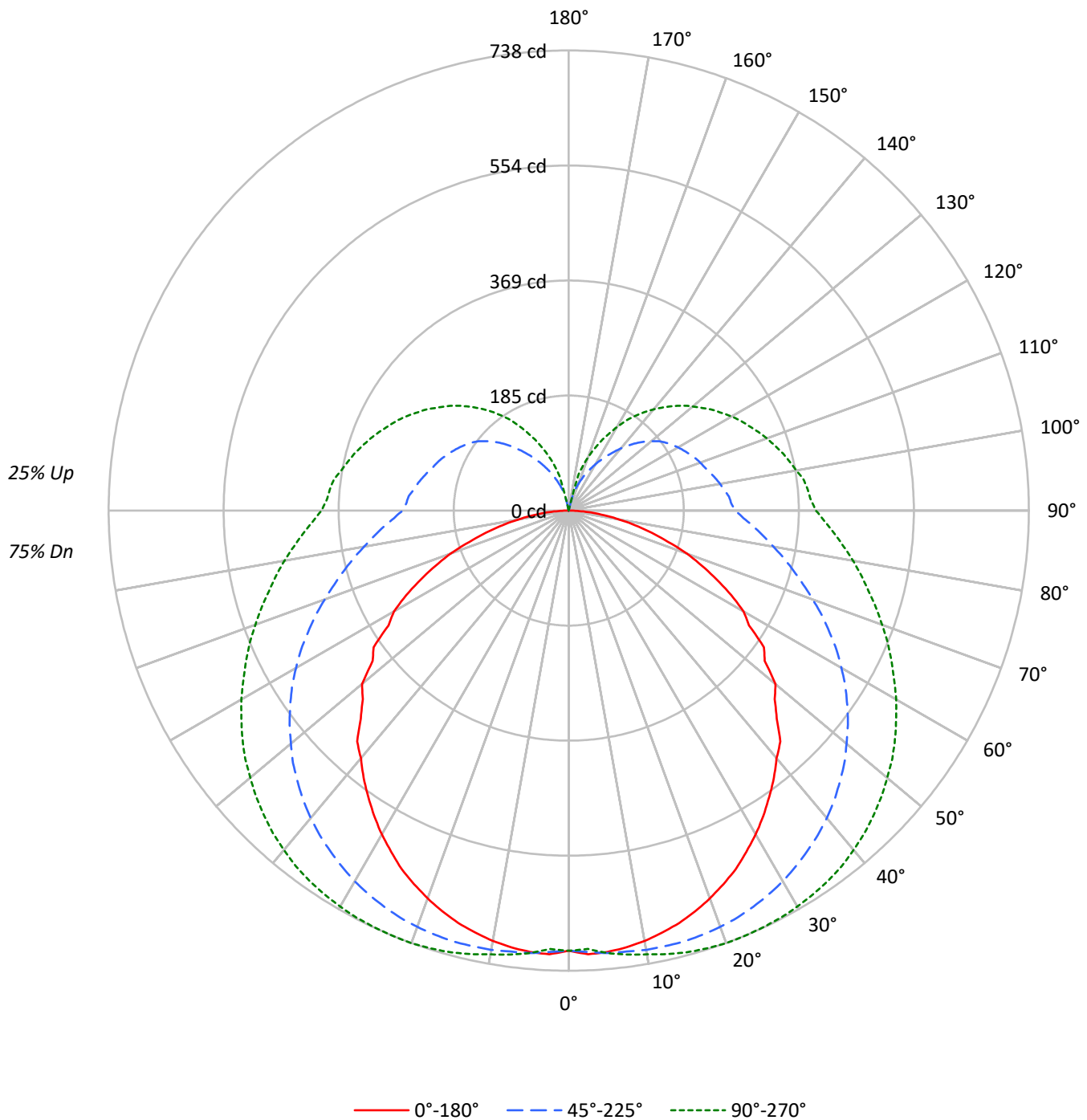
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284466

CATALOG NUMBER: 4SNLED-LD5-41SL-SLW-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284466

CATALOG NUMBER: 4SNLED-LD5-41SL-SLW-UNV-L830-CD1-U

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°	5704	5704	5704
5°	5748	5636	5594
10°	5720	5587	5563
15°	5681	5557	5575
20°	5627	5531	5586
25°	5574	5511	5595
30°	5497	5494	5625
35°	5411	5475	5663
40°	5330	5471	5700
45°	5228	5458	5745
50°	5245	5446	5791
55°	5151	5446	5859
60°	4963	5450	5939
65°	4688	5456	6050
70°	4384	5496	6219
75°	3848	5624	6471
80°	3249	5894	6888
85°	2412	6444	7497



TEST NUMBER: P284466

CATALOG NUMBER: 4SNLED-LD5-41SL-SLW-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.7
10°-20°	201.0	4.9
20°-30°	319.5	7.9
30°-40°	410.1	10.1
40°-50°	463.1	11.4
50°-60°	472.5	11.6
60°-70°	437.8	10.8
70°-80°	370.6	9.1
80°-90°	295.8	7.3
90°-100°	251.2	6.2
100°-110°	223.8	5.5
110°-120°	190.6	4.7
120°-130°	151.4	3.7
130°-140°	107.4	2.6
140°-150°	64.1	1.6
150°-160°	29.9	0.7
160°-170°	7.1	0.2
170°-180°	0.0	0.0
0°-30°	588.4	14.5
0°-40°	998.5	24.6
0°-60°	1934.1	47.6
0°-90°	3038.3	74.8
90°-120°	665.7	16.4
90°-150°	988.6	24.3
90°-180°	1026.0	25.2
0°-180°	4064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	710	705	712	712	712	67
15°	685	690	715	728	733	193
25°	634	655	701	726	737	292
35°	560	602	667	708	725	351
45°	472	536	615	668	691	366
55°	382	446	545	612	639	335
65°	262	349	461	540	571	260
75°	138	244	373	465	498	146
85°	35	157	298	394	428	39
90°	2	128	266	363	396	3
95°	0	120	258	352	385	0
105°	0	111	235	324	355	0
115°	0	103	214	291	320	0
125°	0	89	190	257	282	0
135°	0	66	153	217	237	0
145°	0	43	107	162	185	0
155°	1	27	66	99	123	0
165°	1	14	30	41	58	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284466

CATALOG NUMBER: 4SNLED-LD5-41SL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.8	705.8	705.8	705.8	705.8
2.5°	712.3	704.8	708.7	707.6	703.8
5°	710.5	704.8	712.3	712.3	712.3
7.5°	706.6	702.7	713.3	717.2	718.2
10°	700.9	700.9	715.4	721.0	722.8
12.5°	693.2	696.0	715.4	723.9	728.5
15°	684.7	690.4	715.4	728.5	733.4
17.5°	674.1	683.7	713.3	729.5	736.2
20°	661.8	676.2	710.5	729.5	738.3
22.5°	648.4	666.7	706.6	727.7	738.3
25°	634.2	655.1	700.9	725.7	737.3
27.5°	616.9	643.7	694.2	722.8	736.2
30°	599.7	630.3	686.5	719.0	733.4
32.5°	580.6	615.9	677.0	713.3	729.5
35°	560.5	601.7	666.7	707.6	724.9
37.5°	540.4	584.5	656.1	699.9	719.0
40°	518.5	567.2	643.7	690.4	710.5
42.5°	502.3	549.2	630.3	680.8	702.0
45°	471.8	535.8	614.9	668.5	691.4
47.5°	447.9	510.0	599.7	656.1	679.8
50°	432.7	488.9	581.6	641.7	666.7
52.5°	396.3	474.7	564.4	627.5	654.0
55°	381.9	446.1	545.3	612.0	638.8
57.5°	342.7	426.0	526.2	595.0	622.6
60°	323.7	398.1	505.1	577.8	606.4
62.5°	294.0	374.4	484.2	558.7	588.3
65°	261.6	348.7	461.3	540.4	571.1
67.5°	231.2	322.9	439.4	521.3	553.8
70°	201.5	296.1	416.4	502.3	534.7
72.5°	167.0	269.3	394.3	484.2	516.7
75°	137.6	243.5	373.4	465.1	497.6
77.5°	108.7	218.8	353.3	447.9	480.4
80°	82.2	194.8	333.2	429.8	463.1
82.5°	57.2	174.7	315.2	412.6	445.0
85°	35.3	156.7	297.9	394.3	427.8
87.5°	16.2	140.4	280.6	377.3	411.5
90°	1.8	128.1	266.5	362.8	396.3
92.5°	1.0	124.2	260.8	356.1	388.6
95°	0.0	120.3	258.0	352.3	384.7
97.5°	0.0	116.5	251.3	346.6	380.1
100°	0.0	114.7	246.4	338.1	370.6
102.5°	0.0	111.8	240.7	330.4	362.8
105°	0.0	110.8	235.0	323.7	355.4
107.5°	0.0	108.7	229.1	315.2	346.6
110°	0.0	106.9	224.5	307.4	338.1



TEST NUMBER: P284466

CATALOG NUMBER: 4SNLED-LD5-41SL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	105.1	219.6	300.0	329.3
115°	0.0	103.1	213.9	291.2	319.8
117.5°	0.0	100.2	208.2	282.7	311.3
120°	0.0	96.4	202.6	275.0	301.8
122.5°	0.0	92.5	196.6	265.4	291.2
125°	0.0	88.9	189.9	256.9	281.7
127.5°	0.0	83.0	182.5	247.4	270.3
130°	0.0	77.3	172.9	237.9	259.8
132.5°	1.0	71.6	163.4	227.3	249.2
135°	0.0	66.0	152.8	216.7	236.8
137.5°	0.0	61.1	141.2	205.4	224.5
140°	0.0	55.4	129.9	192.0	212.1
142.5°	0.0	48.7	118.5	177.6	198.7
145°	0.0	43.0	106.9	162.4	185.3
147.5°	1.0	38.1	96.4	146.1	170.9
150°	1.0	34.3	86.1	129.9	154.6
152.5°	1.0	30.7	75.5	114.7	138.4
155°	1.0	26.8	66.0	99.2	123.2
157.5°	1.0	22.9	55.4	84.0	106.9
160°	1.0	20.1	45.9	70.6	91.7
162.5°	1.0	17.3	37.4	55.4	75.5
165°	1.0	14.4	29.6	41.0	58.2
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)