

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: P284623

Luminaire Tested: **4SNLED-LD5-45SL-SLW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284623
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-LD5-45SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3548.0 lumens
Efficiency: N/A
Efficacy: 86.5 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

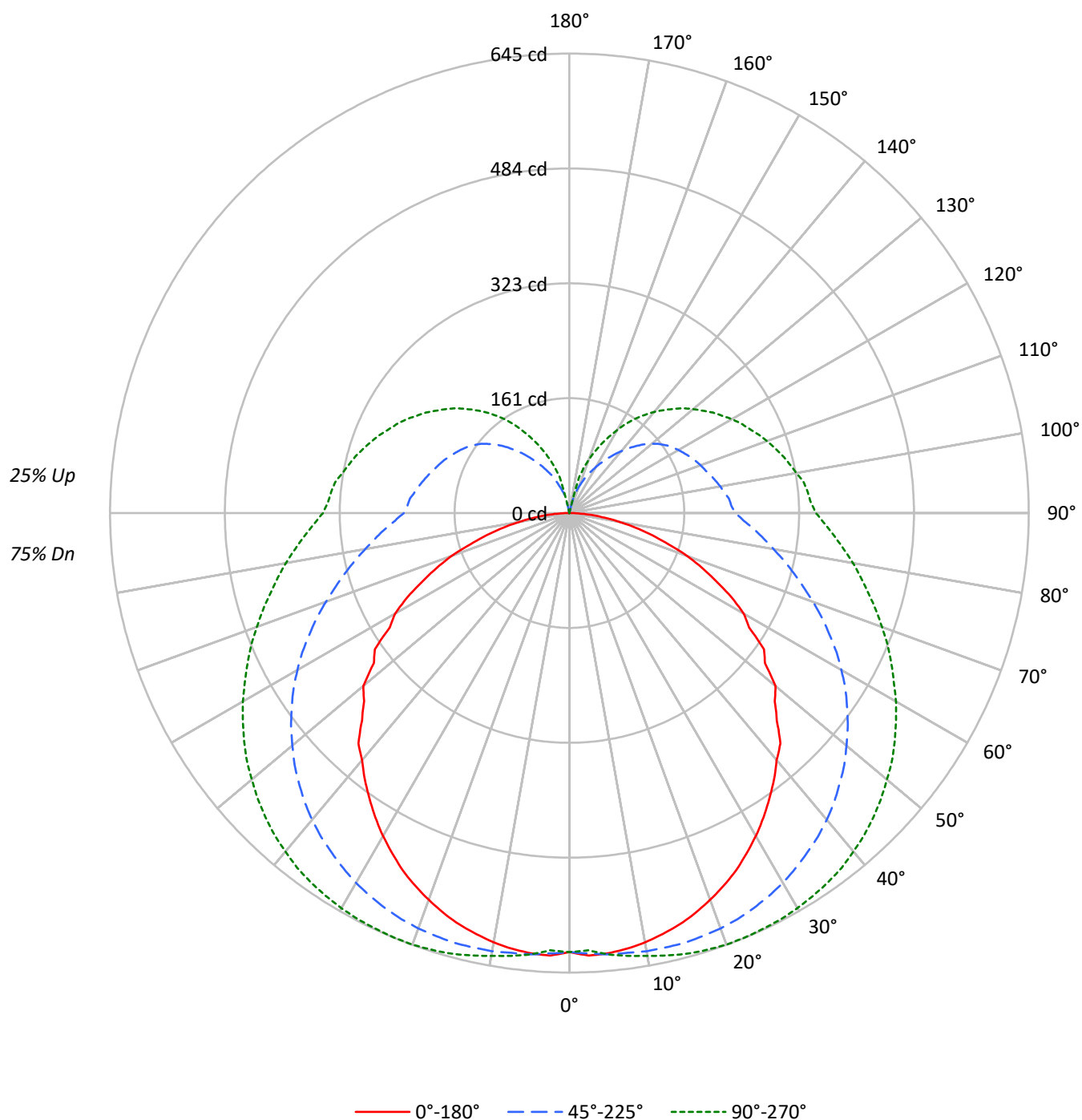
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4980	4980	4980
5°	5018	4920	4884
10°	4994	4877	4857
15°	4960	4851	4867
20°	4912	4829	4877
25°	4866	4811	4885
30°	4798	4796	4911
35°	4724	4779	4944
40°	4654	4776	4976
45°	4565	4765	5015
50°	4578	4755	5055
55°	4497	4755	5115
60°	4333	4758	5185
65°	4093	4763	5282
70°	3827	4799	5430
75°	3358	4910	5649
80°	2838	5146	6013
85°	2104	5626	6546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	1.7
10°-20°	175.5	4.9
20°-30°	279.0	7.9
30°-40°	358.0	10.1
40°-50°	404.3	11.4
50°-60°	412.5	11.6
60°-70°	382.2	10.8
70°-80°	323.6	9.1
80°-90°	258.3	7.3
90°-100°	219.3	6.2
100°-110°	195.4	5.5
110°-120°	166.4	4.7
120°-130°	132.2	3.7
130°-140°	93.8	2.6
140°-150°	56.0	1.6
150°-160°	26.1	0.7
160°-170°	6.2	0.2
170°-180°	0.0	0.0
0°-30°	513.7	14.5
0°-40°	871.7	24.6
0°-60°	1688.5	47.6
0°-90°	2652.6	74.8
90°-120°	581.1	16.4
90°-150°	863.1	24.3
90°-180°	895.0	25.2
0°-180°	3548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	620	615	622	622	622	59
15°	598	603	624	636	640	169
25°	554	572	612	634	644	255
35°	489	525	582	618	633	306
45°	412	468	537	584	604	320
55°	333	389	476	534	558	293
65°	228	304	403	472	499	227
75°	120	213	326	406	434	128
85°	31	137	260	344	374	34
90°	2	112	233	317	346	3
95°	0	105	225	308	336	0
105°	0	97	205	283	310	0
115°	0	90	187	254	279	0
125°	0	78	166	224	246	0
135°	0	58	133	189	207	0
145°	0	38	93	142	162	0
155°	1	23	58	87	108	0
165°	1	13	26	36	51	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°	616.2	616.2	616.2	616.2	616.2
2.5°	621.8	615.3	618.7	617.8	614.4
5°	620.3	615.3	621.8	621.8	621.8
7.5°	616.9	613.5	622.7	626.1	627.0
10°	611.9	611.9	624.5	629.5	631.1
12.5°	605.2	607.7	624.5	632.0	636.0
15°	597.8	602.7	624.5	636.0	640.3
17.5°	588.5	596.9	622.7	636.9	642.8
20°	577.7	590.3	620.3	636.9	644.6
22.5°	566.1	582.0	616.9	635.3	644.6
25°	553.7	571.9	611.9	633.5	643.7
27.5°	538.6	562.0	606.1	631.1	642.8
30°	523.5	550.3	599.3	627.7	640.3
32.5°	506.9	537.7	591.0	622.7	636.9
35°	489.3	525.3	582.0	617.8	632.9
37.5°	471.8	510.3	572.8	611.0	627.7
40°	452.7	495.2	562.0	602.7	620.3
42.5°	438.5	479.4	550.3	594.4	612.8
45°	411.9	467.7	536.8	583.6	603.6
47.5°	391.0	445.2	523.5	572.8	593.5
50°	377.7	426.8	507.8	560.2	582.0
52.5°	346.0	414.4	492.7	547.8	571.0
55°	333.4	389.4	476.1	534.3	557.7
57.5°	299.2	371.9	459.4	519.5	543.6
60°	282.6	347.6	441.0	504.4	529.4
62.5°	256.7	326.9	422.7	487.8	513.6
65°	228.4	304.4	402.7	471.8	498.6
67.5°	201.8	281.9	383.6	455.1	483.5
70°	175.9	258.5	363.6	438.5	466.8
72.5°	145.8	235.1	344.2	422.7	451.1
75°	120.1	212.6	326.0	406.1	434.4
77.5°	94.9	191.0	308.4	391.0	419.4
80°	71.8	170.1	290.9	375.3	404.3
82.5°	49.9	152.5	275.2	360.2	388.5
85°	30.8	136.8	260.1	344.2	373.5
87.5°	14.2	122.6	245.0	329.4	359.3
90°	1.6	111.8	232.6	316.8	346.0
92.5°	0.9	108.4	227.7	310.9	339.3
95°	0.0	105.1	225.2	307.5	335.9
97.5°	0.0	101.7	219.4	302.6	331.8
100°	0.0	100.1	215.1	295.2	323.5
102.5°	0.0	97.6	210.1	288.4	316.8
105°	0.0	96.7	205.2	282.6	310.2
107.5°	0.0	94.9	200.0	275.2	302.6
110°	0.0	93.4	196.0	268.4	295.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	91.8	191.7	261.9	287.5
115°	0.0	90.0	186.7	254.2	279.2
117.5°	0.0	87.5	181.8	246.8	271.8
120°	0.0	84.1	176.8	240.1	263.5
122.5°	0.0	80.8	171.7	231.7	254.2
125°	0.0	77.6	165.8	224.3	245.9
127.5°	0.0	72.4	159.3	216.0	236.0
130°	0.0	67.5	151.0	207.7	226.8
132.5°	0.9	62.5	142.6	198.4	217.6
135°	0.0	57.6	133.4	189.2	206.8
137.5°	0.0	53.3	123.3	179.3	196.0
140°	0.0	48.4	113.4	167.6	185.2
142.5°	0.0	42.5	103.5	155.0	173.5
145°	0.0	37.6	93.4	141.7	161.8
147.5°	0.9	33.3	84.1	127.6	149.2
150°	0.9	29.9	75.1	113.4	135.0
152.5°	0.9	26.8	65.9	100.1	120.8
155°	0.9	23.4	57.6	86.6	107.5
157.5°	0.9	20.0	48.4	73.3	93.4
160°	0.9	17.5	40.0	61.6	80.1
162.5°	0.9	15.1	32.6	48.4	65.9
165°	0.9	12.6	25.9	35.8	50.8
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)