

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: P#

Luminaire Tested: **4SNLED-LD5-48HL-SLW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-48HL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

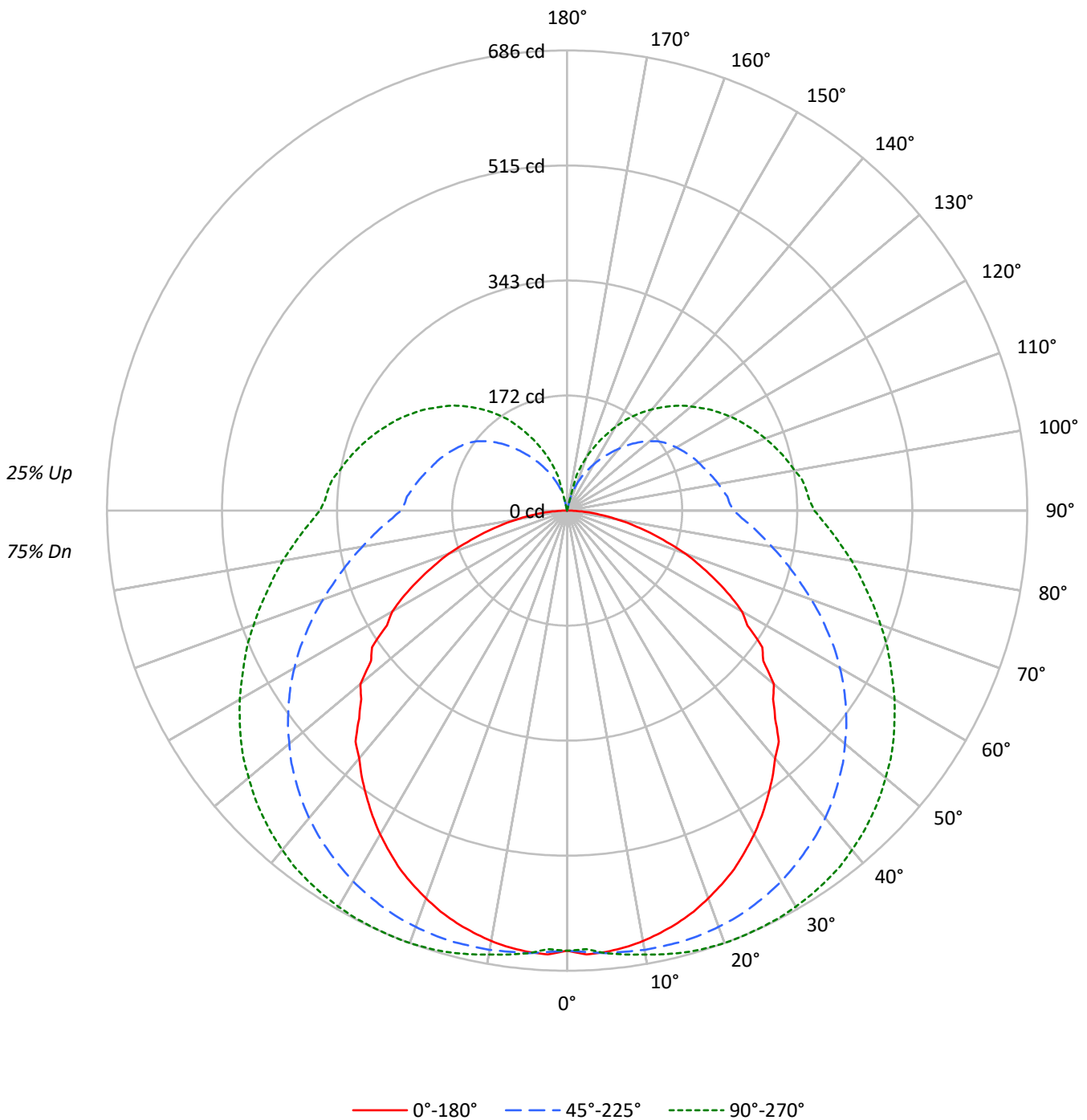
Lumens per Lamp: N/A
Luminaire Lumens: 3778.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 39
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
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°	5302	5302	5302
5°	5343	5241	5202
10°	5318	5193	5172
15°	5281	5165	5183
20°	5231	5142	5192
25°	5181	5123	5201
30°	5110	5108	5229
35°	5031	5089	5264
40°	4956	5086	5299
45°	4861	5074	5340
50°	4875	5063	5383
55°	4789	5063	5447
60°	4615	5067	5521
65°	4358	5072	5624
70°	4075	5110	5783
75°	3573	5228	6015
80°	3016	5480	6404
85°	2241	5992	6970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.7
10°-20°	186.9	4.9
20°-30°	297.0	7.9
30°-40°	381.2	10.1
40°-50°	430.5	11.4
50°-60°	439.3	11.6
60°-70°	407.0	10.8
70°-80°	344.5	9.1
80°-90°	275.0	7.3
90°-100°	233.5	6.2
100°-110°	208.1	5.5
110°-120°	177.2	4.7
120°-130°	140.8	3.7
130°-140°	99.9	2.6
140°-150°	59.6	1.6
150°-160°	27.8	0.7
160°-170°	6.6	0.2
170°-180°	0.0	0.0
0°-30°	547.0	14.5
0°-40°	928.2	24.6
0°-60°	1798.0	47.6
0°-90°	2824.6	74.8
90°-120°	618.9	16.4
90°-150°	919.1	24.3
90°-180°	953.0	25.2
0°-180°	3778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	660	655	662	662	662	63
15°	636	642	665	677	682	180
25°	590	609	652	675	685	271
35°	521	559	620	658	674	326
45°	439	498	572	621	643	341
55°	355	415	507	569	594	312
65°	243	324	429	502	531	241
75°	128	226	347	432	462	136
85°	33	146	277	367	398	36
90°	2	119	248	337	368	3
95°	0	112	240	328	358	0
105°	0	103	218	301	330	0
115°	0	96	199	271	297	0
125°	0	83	177	239	262	0
135°	0	61	142	202	220	0
145°	0	40	99	151	172	0
155°	1	25	61	92	114	0
165°	1	13	28	38	54	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°	656.1	656.1	656.1	656.1	656.1
2.5°	662.3	655.2	658.7	657.8	654.3
5°	660.5	655.2	662.3	662.3	662.3
7.5°	656.9	653.4	663.2	666.7	667.6
10°	651.6	651.6	664.9	670.3	672.0
12.5°	644.5	647.2	664.9	672.9	677.4
15°	636.5	641.9	664.9	677.4	681.8
17.5°	626.8	635.6	663.2	678.3	684.5
20°	615.2	628.5	660.5	678.3	686.2
22.5°	602.8	619.7	656.9	676.5	686.2
25°	589.5	609.0	651.6	674.7	685.4
27.5°	573.5	598.4	645.4	672.0	684.5
30°	557.5	585.9	638.3	668.5	681.8
32.5°	539.8	572.6	629.4	663.2	678.3
35°	521.1	559.3	619.7	657.8	673.8
37.5°	502.5	543.3	609.9	650.7	668.5
40°	482.1	527.3	598.4	641.9	660.5
42.5°	467.0	510.5	585.9	633.0	652.5
45°	438.6	498.0	571.7	621.4	642.7
47.5°	416.4	474.1	557.5	609.9	632.1
50°	402.2	454.5	540.7	596.6	619.7
52.5°	368.4	441.2	524.7	583.3	608.1
55°	355.1	414.6	506.9	569.1	593.9
57.5°	318.7	395.9	489.2	553.1	578.8
60°	301.0	370.2	469.6	537.1	563.7
62.5°	273.4	348.0	450.1	519.3	546.9
65°	243.2	324.0	428.8	502.5	530.9
67.5°	214.8	300.1	408.4	484.7	514.9
70°	187.3	275.2	387.1	467.0	497.2
72.5°	155.4	250.4	366.6	450.1	480.3
75°	127.8	226.4	347.1	432.3	462.5
77.5°	101.2	203.3	328.5	416.4	446.5
80°	76.3	181.1	309.8	399.5	430.6
82.5°	53.3	162.5	293.0	383.5	413.7
85°	32.8	145.6	277.0	366.6	397.7
87.5°	15.1	130.5	261.0	350.7	382.6
90°	1.8	119.0	247.7	337.4	368.4
92.5°	0.9	115.4	242.4	331.1	361.3
95°	0.0	111.9	239.7	327.6	357.8
97.5°	0.0	108.3	233.5	322.3	353.3
100°	0.0	106.5	229.0	314.3	344.5
102.5°	0.0	103.9	223.7	307.2	337.4
105°	0.0	103.0	218.4	301.0	330.2
107.5°	0.0	101.2	213.1	293.0	322.3
110°	0.0	99.4	208.6	285.9	314.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	97.7	204.2	278.8	306.3
115°	0.0	95.9	198.9	270.8	297.4
117.5°	0.0	93.2	193.5	262.8	289.4
120°	0.0	89.7	188.2	255.7	280.5
122.5°	0.0	86.1	182.9	246.8	270.8
125°	0.0	82.6	176.7	238.8	261.9
127.5°	0.0	77.2	169.6	229.9	251.2
130°	0.0	71.9	160.7	221.1	241.5
132.5°	0.9	66.6	151.8	211.3	231.7
135°	0.0	61.3	142.0	201.5	220.2
137.5°	0.0	56.8	131.4	190.9	208.6
140°	0.0	51.5	120.7	178.4	197.1
142.5°	0.0	45.3	110.1	165.1	184.7
145°	0.0	39.9	99.4	150.9	172.2
147.5°	0.9	35.5	89.7	135.8	158.9
150°	0.9	32.0	79.9	120.7	143.8
152.5°	0.9	28.4	70.1	106.5	128.7
155°	0.9	24.9	61.3	92.3	114.5
157.5°	0.9	21.3	51.5	78.1	99.4
160°	0.9	18.6	42.6	65.7	85.2
162.5°	0.9	16.0	34.6	51.5	70.1
165°	0.9	13.3	27.5	38.2	54.2
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)