

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-LD5-92HL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-92HL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

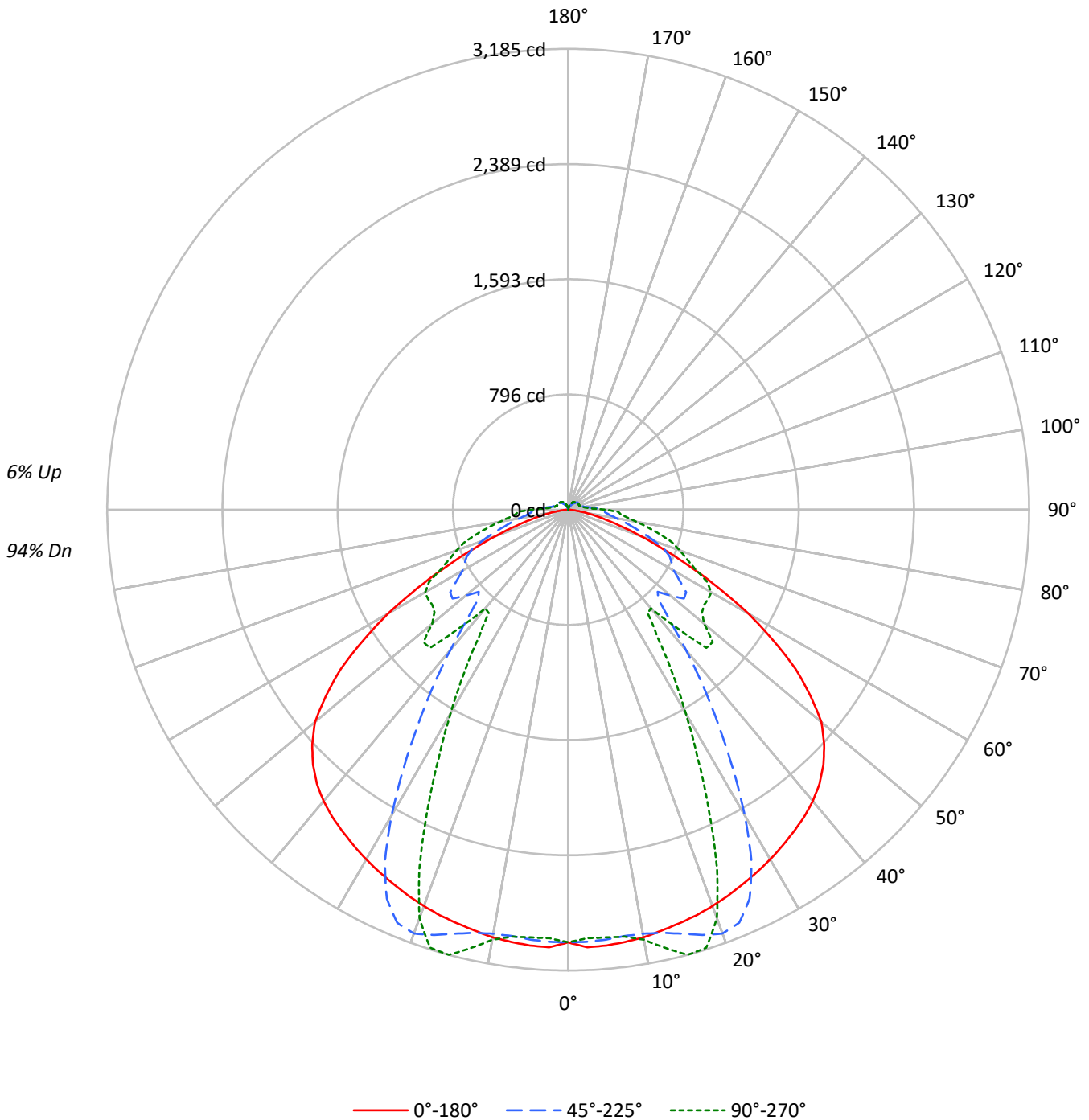
Lumens per Lamp: N/A
Luminaire Lumens: 7681.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 79
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24163	24163	24163
5°	24457	23598	23307
10°	24488	23239	23227
15°	24555	23565	24209
20°	24783	24267	22724
25°	25092	23322	17497
30°	25587	19533	12445
35°	26221	14794	8427
40°	27023	10754	7136
45°	27636	7801	11218
50°	27675	8639	10647
55°	25868	9942	10514
60°	22040	9097	11175
65°	16580	9175	10222
70°	11637	8352	9515
75°	7625	6997	8537
80°	4866	5995	7107
85°	2623	5698	6379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.5	3.7
10°-20°	859.1	11.2
20°-30°	1248.0	16.2
30°-40°	1192.4	15.5
40°-50°	1090.7	14.2
50°-60°	1007.1	13.1
60°-70°	799.9	10.4
70°-80°	493.7	6.4
80°-90°	268.9	3.5
90°-100°	135.9	1.8
100°-110°	85.4	1.1
110°-120°	72.3	0.9
120°-130°	59.1	0.8
130°-140°	42.4	0.6
140°-150°	26.1	0.3
150°-160°	12.4	0.2
160°-170°	3.2	0.0
170°-180°	0.0	0.0
0°-30°	2391.5	31.1
0°-40°	3583.9	46.7
0°-60°	5681.6	74.0
0°-90°	7244.2	94.3
90°-120°	293.6	3.8
90°-150°	421.2	5.5
90°-180°	437.0	5.7
0°-180°	7681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2990	2990	2990	2990	2990	
5°	3023	2977	2982	2966	2968	288
15°	2960	2920	3034	3146	3185	838
25°	2855	2911	2966	2511	2306	1320
35°	2716	2672	1802	1240	1079	1703
45°	2494	1739	879	1121	1350	1917
55°	1918	892	995	1071	1146	1689
65°	925	578	776	942	965	936
75°	273	308	465	616	656	309
85°	38	131	263	359	364	49
90°	1	98	236	279	258	2
95°	0	91	163	144	136	0
105°	0	82	101	91	90	0
115°	0	68	97	86	82	1
125°	1	54	86	83	79	1
135°	1	38	69	75	73	1
145°	1	24	48	61	65	1
155°	3	15	29	38	46	1
165°	3	8	15	18	25	1
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°	2990.1	2990.1	2990.1	2990.1	2990.1
2.5°	3027.2	2983.5	2988.8	2979.6	2963.7
5°	3023.2	2976.9	2982.2	2966.3	2967.6
7.5°	3012.6	2965.0	2971.6	2969.0	2975.6
10°	3000.7	2950.4	2975.6	2998.1	3017.9
12.5°	2979.6	2934.5	2995.4	3061.6	3102.7
15°	2959.7	2920.0	3033.8	3146.3	3184.7
17.5°	2939.8	2914.7	3081.5	3179.4	3174.1
20°	2914.7	2912.0	3117.2	3084.1	3003.4
22.5°	2886.9	2913.4	3089.4	2847.2	2688.3
25°	2855.1	2910.7	2966.3	2511.0	2305.8
27.5°	2823.4	2898.8	2742.6	2143.0	1940.5
30°	2791.6	2867.0	2440.8	1806.8	1622.8
32.5°	2754.5	2798.2	2112.6	1509.0	1339.5
35°	2716.1	2672.5	1801.5	1240.3	1078.8
37.5°	2676.4	2491.1	1522.2	1004.7	901.4
40°	2628.8	2263.5	1265.4	861.7	889.5
42.5°	2569.2	2006.7	1039.1	904.1	1097.3
45°	2493.8	1739.3	878.9	1121.1	1350.1
47.5°	2398.5	1482.5	839.2	1283.9	1355.4
50°	2283.3	1246.9	922.6	1231.0	1225.7
52.5°	2108.6	1051.0	1007.3	1122.5	1164.8
55°	1918.0	892.1	995.4	1070.8	1146.3
57.5°	1677.1	784.9	913.3	1060.2	1147.6
60°	1437.5	713.5	843.2	1058.9	1141.0
62.5°	1172.8	648.6	807.4	1033.8	1082.8
65°	925.2	578.4	775.7	942.4	964.9
67.5°	709.5	507.0	720.1	840.5	885.5
70°	534.8	436.8	632.7	762.4	818.0
72.5°	385.2	370.6	542.7	693.6	751.8
75°	272.7	308.4	464.6	615.5	656.5
77.5°	188.0	251.5	398.4	529.5	562.6
80°	123.1	201.2	338.9	455.3	477.8
82.5°	74.1	161.5	293.9	398.4	410.3
85°	38.4	131.0	263.4	358.7	364.0
87.5°	11.9	109.9	246.2	340.2	346.8
90°	1.3	98.0	235.6	279.3	258.1
92.5°	0.0	92.7	203.8	190.6	170.8
95°	0.0	91.3	162.8	144.3	136.3
97.5°	0.0	88.7	133.7	120.5	116.5
100°	0.0	86.0	115.2	105.9	104.6
102.5°	0.0	84.7	104.6	96.6	95.3
105°	0.0	82.1	100.6	91.3	90.0
107.5°	0.0	78.1	98.0	88.7	86.0
110°	0.0	74.1	98.0	87.4	83.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	70.2	98.0	86.0	82.1
115°	0.0	67.5	96.6	86.0	82.1
117.5°	1.3	64.9	95.3	86.0	82.1
120°	0.0	62.2	92.7	86.0	80.7
122.5°	1.3	58.2	90.0	84.7	80.7
125°	1.3	54.3	86.0	83.4	79.4
127.5°	1.3	50.3	82.1	80.7	76.8
130°	1.3	46.3	78.1	79.4	75.4
132.5°	1.3	42.4	72.8	76.8	74.1
135°	1.3	38.4	68.8	75.4	72.8
137.5°	1.3	34.4	63.5	71.5	71.5
140°	1.3	30.4	58.2	68.8	70.2
142.5°	1.3	27.8	52.9	66.2	67.5
145°	1.3	23.8	47.7	60.9	64.9
147.5°	1.3	21.2	42.4	55.6	60.9
150°	1.3	18.5	37.1	50.3	55.6
152.5°	1.3	15.9	33.1	43.7	51.6
155°	2.6	14.6	29.1	38.4	46.3
157.5°	2.6	11.9	23.8	33.1	39.7
160°	2.6	10.6	21.2	27.8	35.7
162.5°	2.6	9.3	17.2	23.8	30.4
165°	2.6	7.9	14.6	18.5	25.1
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)