

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: **8SNLED-LD5-90SL-SLC-UNV-L830-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: 8SNLED-LD5-90SL-SLC-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

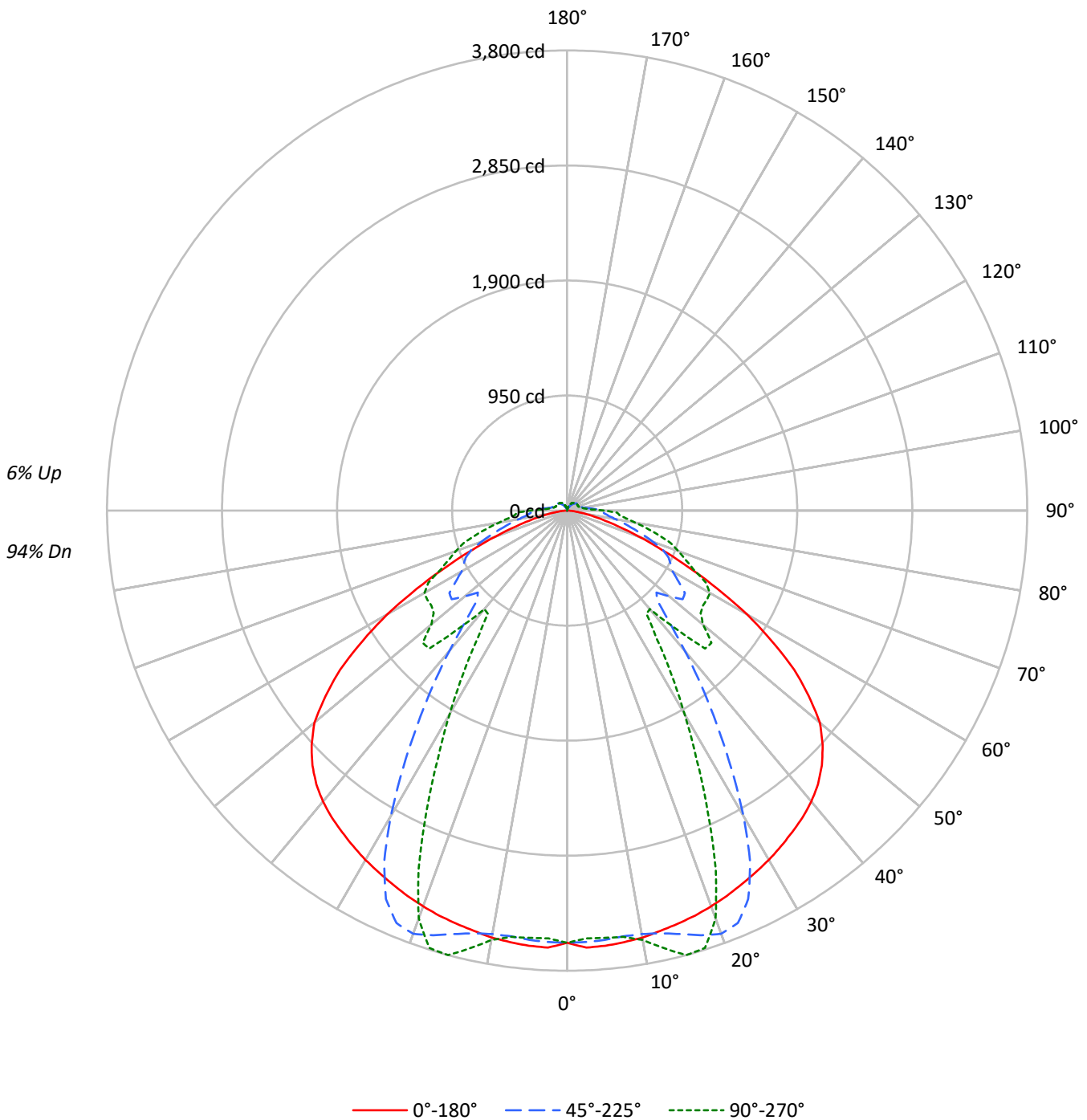
Lumens per Lamp: N/A
Luminaire Lumens: 9165.0 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 69
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°	14416	14416	14416
5°	14611	14092	13905
10°	14650	13890	13857
15°	14711	14098	14443
20°	14869	14531	13557
25°	15078	13977	10439
30°	15402	11718	7425
35°	15813	8883	5028
40°	16330	6464	4257
45°	16741	4694	6693
50°	16813	5205	6352
55°	15769	5998	6273
60°	13495	5498	6667
65°	10213	5555	6099
70°	7228	5068	5677
75°	4800	4260	5094
80°	3140	3663	4240
85°	1802	3502	3806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.4	3.7
10°-20°	1025.1	11.2
20°-30°	1489.1	16.2
30°-40°	1422.7	15.5
40°-50°	1301.4	14.2
50°-60°	1201.6	13.1
60°-70°	954.5	10.4
70°-80°	589.1	6.4
80°-90°	320.8	3.5
90°-100°	162.2	1.8
100°-110°	101.9	1.1
110°-120°	86.3	0.9
120°-130°	70.5	0.8
130°-140°	50.6	0.6
140°-150°	31.2	0.3
150°-160°	14.8	0.2
160°-170°	3.8	0.0
170°-180°	0.0	0.0
0°-30°	2853.6	31.1
0°-40°	4276.3	46.7
0°-60°	6779.4	74.0
0°-90°	8643.8	94.3
90°-120°	350.3	3.8
90°-150°	502.6	5.5
90°-180°	521.0	5.7
0°-180°	9165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3568	3568	3568	3568	3568	
5°	3607	3552	3558	3539	3541	343
15°	3532	3484	3620	3754	3800	999
25°	3407	3473	3539	2996	2751	1575
35°	3241	3189	2150	1480	1287	2032
45°	2976	2075	1049	1338	1611	2287
55°	2288	1064	1188	1278	1368	2016
65°	1104	690	926	1124	1151	1116
75°	325	368	554	734	783	369
85°	46	156	314	428	434	58
90°	2	117	281	333	308	2
95°	0	109	194	172	163	0
105°	0	98	120	109	107	0
115°	0	80	115	103	98	1
125°	2	65	103	100	95	1
135°	2	46	82	90	87	1
145°	2	28	57	73	77	1
155°	3	17	35	46	55	1
165°	3	10	17	22	30	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°	3567.8	3567.8	3567.8	3567.8	3567.8
2.5°	3612.1	3559.9	3566.3	3555.2	3536.3
5°	3607.3	3552.1	3558.4	3539.4	3541.0
7.5°	3594.7	3537.8	3545.7	3542.6	3550.5
10°	3580.5	3520.5	3550.5	3577.3	3601.0
12.5°	3555.2	3501.5	3574.2	3653.1	3702.1
15°	3531.5	3484.1	3620.0	3754.2	3800.0
17.5°	3507.8	3477.8	3676.8	3793.7	3787.4
20°	3477.8	3474.7	3719.5	3680.0	3583.6
22.5°	3444.7	3476.2	3686.3	3397.3	3207.7
25°	3406.7	3473.1	3539.4	2996.1	2751.3
27.5°	3368.8	3458.9	3272.5	2557.0	2315.4
30°	3330.9	3421.0	2912.4	2155.9	1936.3
32.5°	3286.7	3338.8	2520.7	1800.5	1598.3
35°	3240.9	3188.8	2149.6	1479.9	1287.2
37.5°	3193.5	2972.4	1816.3	1198.8	1075.6
40°	3136.7	2700.8	1509.9	1028.2	1061.4
42.5°	3065.6	2394.4	1239.8	1078.7	1309.3
45°	2975.6	2075.3	1048.7	1337.7	1611.0
47.5°	2861.9	1768.9	1001.3	1532.0	1617.3
50°	2724.5	1487.8	1100.8	1468.8	1462.5
52.5°	2516.0	1254.0	1201.9	1339.3	1389.9
55°	2288.5	1064.5	1187.7	1277.7	1367.8
57.5°	2001.1	936.6	1089.8	1265.1	1369.3
60°	1715.2	851.3	1006.1	1263.5	1361.4
62.5°	1399.3	773.9	963.4	1233.5	1291.9
65°	1104.0	690.2	925.5	1124.5	1151.4
67.5°	846.6	604.9	859.2	1002.9	1056.6
70°	638.1	521.2	754.9	909.7	976.1
72.5°	459.6	442.2	647.6	827.6	897.1
75°	325.4	368.0	554.4	734.4	783.4
77.5°	224.3	300.1	475.4	631.8	671.2
80°	146.9	240.1	404.3	543.3	570.2
82.5°	88.4	192.7	350.6	475.4	489.6
85°	45.8	156.4	314.3	428.0	434.3
87.5°	14.2	131.1	293.8	405.9	413.8
90°	1.6	116.9	281.1	333.3	308.0
92.5°	0.0	110.6	243.2	227.4	203.7
95°	0.0	109.0	194.3	172.2	162.7
97.5°	0.0	105.8	159.5	143.7	139.0
100°	0.0	102.7	137.4	126.4	124.8
102.5°	0.0	101.1	124.8	115.3	113.7
105°	0.0	97.9	120.0	109.0	107.4
107.5°	0.0	93.2	116.9	105.8	102.7
110°	0.0	88.4	116.9	104.2	99.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	83.7	116.9	102.7	97.9
115°	0.0	80.5	115.3	102.7	97.9
117.5°	1.6	77.4	113.7	102.7	97.9
120°	0.0	74.2	110.6	102.7	96.3
122.5°	1.6	69.5	107.4	101.1	96.3
125°	1.6	64.8	102.7	99.5	94.8
127.5°	1.6	60.0	97.9	96.3	91.6
130°	1.6	55.3	93.2	94.8	90.0
132.5°	1.6	50.5	86.9	91.6	88.4
135°	1.6	45.8	82.1	90.0	86.9
137.5°	1.6	41.1	75.8	85.3	85.3
140°	1.6	36.3	69.5	82.1	83.7
142.5°	1.6	33.2	63.2	79.0	80.5
145°	1.6	28.4	56.9	72.7	77.4
147.5°	1.6	25.3	50.5	66.3	72.7
150°	1.6	22.1	44.2	60.0	66.3
152.5°	1.6	19.0	39.5	52.1	61.6
155°	3.2	17.4	34.7	45.8	55.3
157.5°	3.2	14.2	28.4	39.5	47.4
160°	3.2	12.6	25.3	33.2	42.6
162.5°	3.2	11.1	20.5	28.4	36.3
165°	3.2	9.5	17.4	22.1	30.0
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)