

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-LD5-200HL-SLN-UNV-L940-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-SLN-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

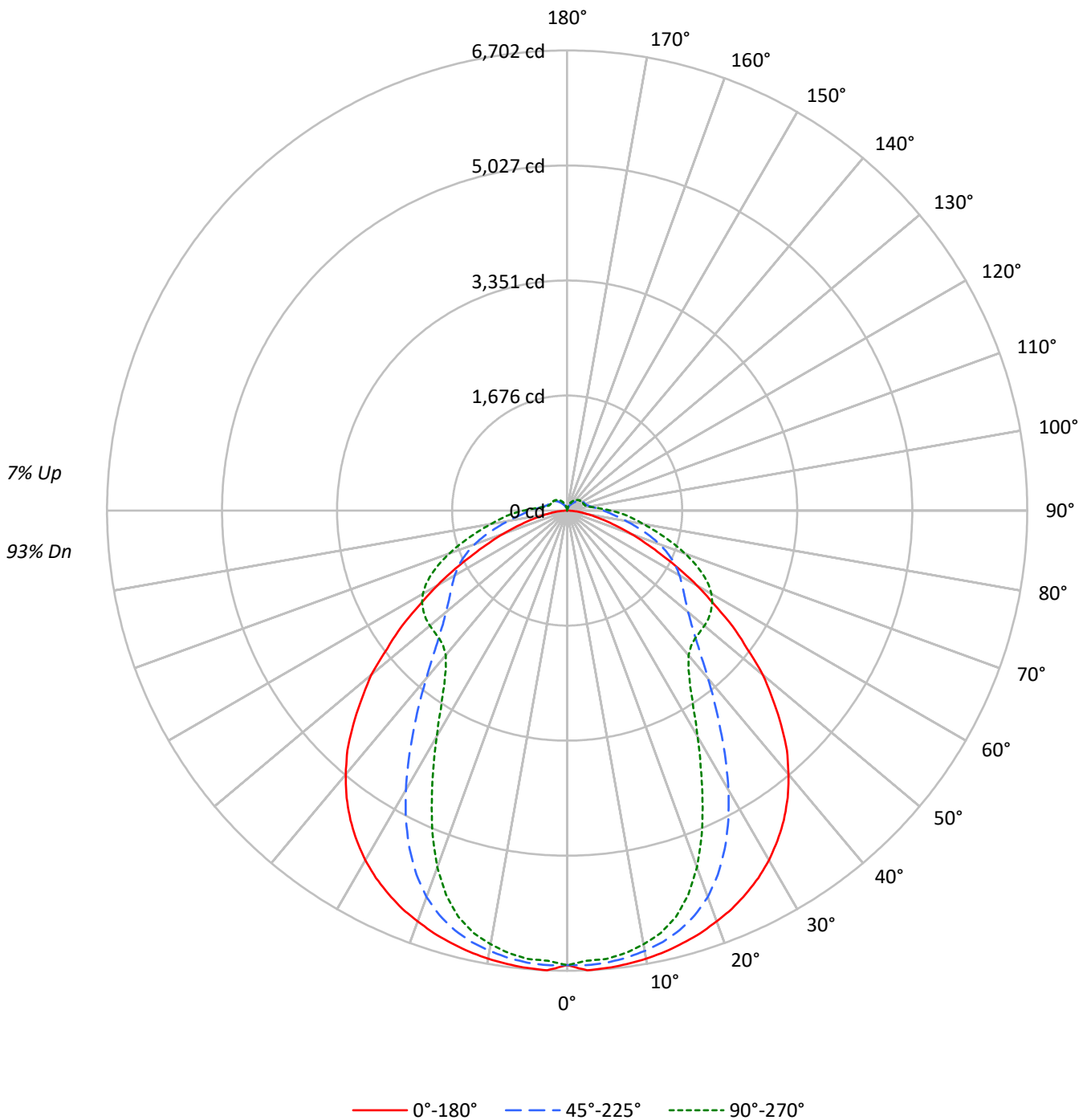
Lumens per Lamp: N/A
Luminaire Lumens: 16645.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
Input Voltage (V): NR
Input Current (A_{in}): 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26743	26743	26743
5°	27088	26177	25743
10°	27116	25477	24684
15°	27163	24645	23276
20°	27216	23396	20904
25°	27270	21458	17702
30°	27186	18898	14559
35°	26849	16095	12201
40°	26117	13645	11030
45°	24793	11872	10947
50°	22969	10866	11331
55°	20296	10459	11727
60°	17200	10326	11889
65°	13917	10117	11518
70°	11274	9617	10622
75°	8613	8730	9426
80°	6517	7871	8386
85°	4638	7469	7713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.2	3.8
10°-20°	1769.9	10.6
20°-30°	2474.2	14.9
30°-40°	2566.3	15.4
40°-50°	2370.9	14.2
50°-60°	2116.7	12.7
60°-70°	1715.5	10.3
70°-80°	1141.0	6.9
80°-90°	653.4	3.9
90°-100°	361.5	2.2
100°-110°	244.8	1.5
110°-120°	203.8	1.2
120°-130°	165.7	1.0
130°-140°	119.5	0.7
140°-150°	72.1	0.4
150°-160°	34.6	0.2
160°-170°	9.0	0.1
170°-180°	0.0	0.0
0°-30°	4870.2	29.3
0°-40°	7436.6	44.7
0°-60°	11924.2	71.6
0°-90°	15434.0	92.7
90°-120°	810.1	4.9
90°-150°	1167.4	7.0
90°-180°	1211.0	7.3
0°-180°	16645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6619	6619	6619	6619	6619	
5°	6688	6576	6610	6564	6555	636
15°	6521	6383	6328	6184	6124	1843
25°	6161	5888	5434	4864	4666	2839
35°	5503	4899	3895	3270	3124	3433
45°	4407	3492	2652	2557	2635	3388
55°	2946	2226	2071	2408	2557	2619
65°	1504	1346	1686	2065	2175	1521
75°	584	731	1136	1392	1450	640
85°	118	339	670	857	880	136
90°	6	239	529	639	633	9
95°	6	201	420	449	434	4
105°	3	176	302	293	279	3
115°	3	158	268	265	256	3
125°	3	135	236	247	242	3
135°	6	101	187	219	219	4
145°	6	63	129	170	181	4
155°	6	40	80	106	129	3
165°	6	23	40	52	69	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°	6618.7	6618.7	6618.7	6618.7	6618.7
2.5°	6702.1	6592.8	6627.3	6598.6	6561.2
5°	6687.8	6575.6	6610.1	6564.1	6555.4
7.5°	6661.9	6549.7	6569.8	6515.2	6500.8
10°	6627.3	6509.4	6512.3	6434.6	6414.5
12.5°	6581.3	6451.9	6434.6	6328.2	6299.4
15°	6520.9	6382.8	6328.2	6184.4	6124.0
17.5°	6454.8	6293.7	6181.5	5960.0	5865.1
20°	6365.6	6184.4	5988.8	5652.2	5525.7
22.5°	6276.4	6052.1	5738.5	5289.8	5120.1
25°	6161.4	5888.1	5433.6	4864.1	4665.6
27.5°	6031.9	5695.4	5082.7	4426.9	4214.0
30°	5879.5	5462.4	4697.2	3998.3	3796.9
32.5°	5701.1	5200.6	4291.7	3612.8	3425.9
35°	5502.7	4898.6	3894.7	3270.5	3123.8
37.5°	5275.4	4567.8	3526.5	2994.4	2899.5
40°	5016.5	4208.3	3187.1	2781.5	2749.9
42.5°	4737.5	3857.3	2896.6	2643.5	2672.2
45°	4406.7	3492.0	2652.1	2557.2	2634.8
47.5°	4058.7	3135.3	2453.6	2508.3	2620.4
50°	3722.1	2804.5	2298.3	2476.6	2608.9
52.5°	3305.0	2508.3	2174.6	2447.9	2591.7
55°	2945.5	2226.4	2071.0	2407.6	2557.2
57.5°	2531.3	1973.2	1979.0	2355.8	2505.4
60°	2186.1	1743.1	1889.8	2283.9	2427.7
62.5°	1835.2	1536.0	1792.0	2189.0	2318.4
65°	1504.4	1346.2	1685.6	2065.3	2174.6
67.5°	1228.2	1173.6	1564.8	1915.7	2007.8
70°	995.3	1015.4	1432.5	1748.9	1826.5
72.5°	765.1	868.7	1288.7	1570.5	1636.7
75°	583.9	730.6	1136.2	1392.2	1449.7
77.5°	431.5	609.8	998.1	1231.1	1280.0
80°	304.9	503.4	868.7	1090.2	1127.6
82.5°	204.2	414.2	762.3	963.6	998.1
85°	117.9	339.4	670.2	857.2	880.2
87.5°	48.9	281.9	595.4	747.9	759.4
90°	5.8	238.7	529.3	638.6	632.8
92.5°	5.8	215.7	471.7	535.0	520.6
95°	5.8	201.4	420.0	448.7	434.3
97.5°	5.8	192.7	373.9	385.4	371.1
100°	2.9	187.0	342.3	342.3	327.9
102.5°	2.9	181.2	319.3	310.7	299.2
105°	2.9	175.5	302.0	293.4	279.0
107.5°	2.9	172.6	290.5	281.9	267.5
110°	2.9	166.8	281.9	273.3	261.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.9	164.0	276.1	270.4	256.0
115°	2.9	158.2	267.5	264.6	256.0
117.5°	2.9	152.5	261.8	261.8	253.1
120°	2.9	146.7	253.1	258.9	250.3
122.5°	2.9	140.9	244.5	253.1	244.5
125°	2.9	135.2	235.9	247.4	241.6
127.5°	5.8	126.6	224.4	241.6	235.9
130°	2.9	117.9	212.9	235.9	233.0
132.5°	5.8	109.3	201.4	227.2	227.2
135°	5.8	100.7	187.0	218.6	218.6
137.5°	5.8	89.2	172.6	207.1	210.0
140°	5.8	80.5	158.2	195.6	201.4
142.5°	5.8	71.9	143.8	184.1	192.7
145°	5.8	63.3	129.4	169.7	181.2
147.5°	5.8	57.5	115.1	152.5	169.7
150°	5.8	48.9	103.6	138.1	155.3
152.5°	5.8	43.1	92.0	123.7	143.8
155°	5.8	40.3	80.5	106.4	129.4
157.5°	5.8	34.5	69.0	92.0	115.1
160°	5.8	28.8	57.5	80.5	97.8
162.5°	5.8	25.9	48.9	66.2	86.3
165°	5.8	23.0	40.3	51.8	69.0
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)