

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-LD5-78SL-SLN-UNV-L835-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: 4SNLED-LD5-78SL-SLN-UNV-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

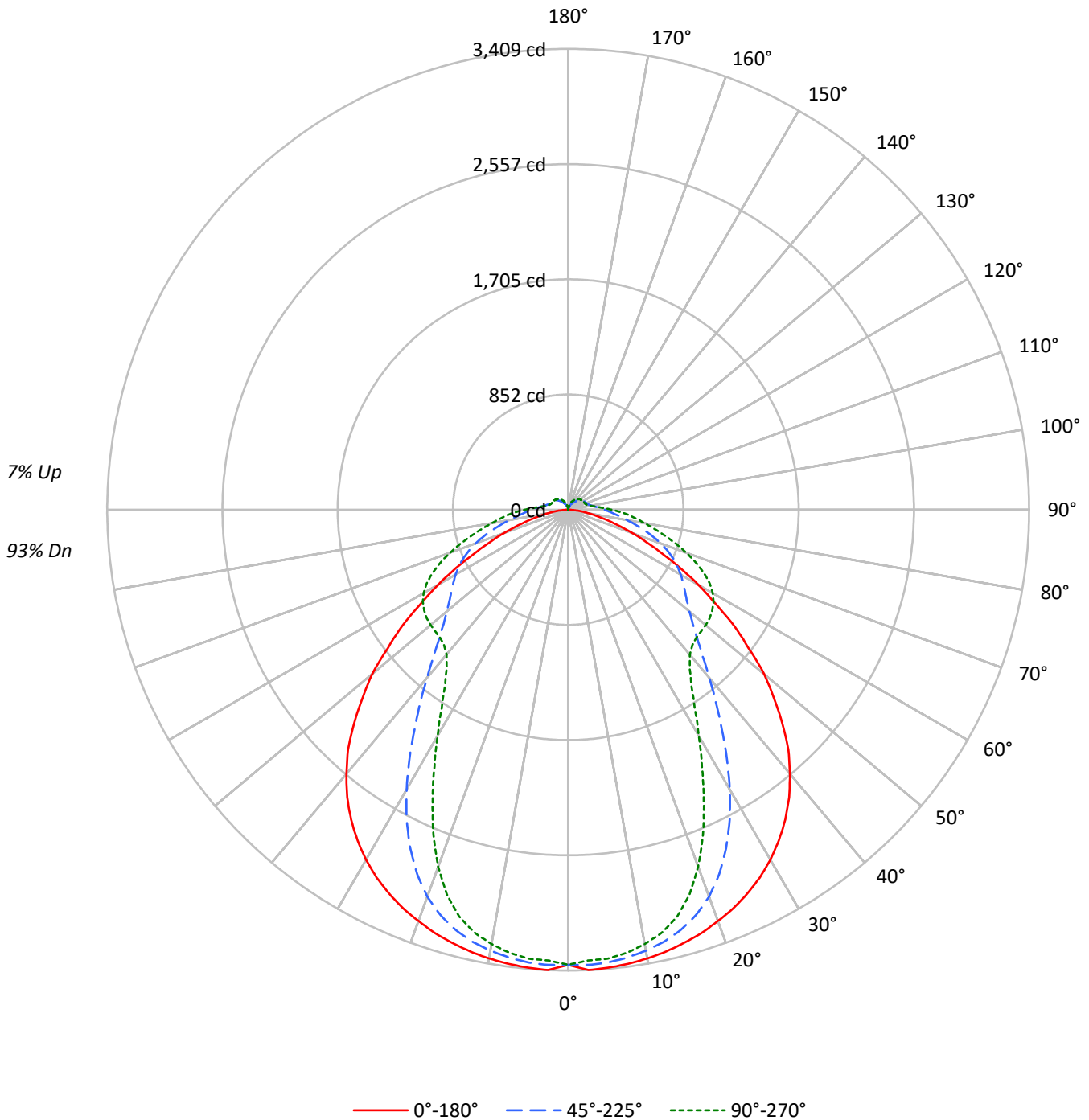
Lumens per Lamp: N/A  
Luminaire Lumens: 8466.0 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 85  
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	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°	27204	27204	27204
5°	27517	26603	26187
10°	27508	25868	25109
15°	27517	25002	23677
20°	27530	23713	21264
25°	27541	21729	18007
30°	27409	19119	14811
35°	27019	16267	12411
40°	26228	13776	11221
45°	24839	11973	11135
50°	22946	10946	11526
55°	20205	10521	11929
60°	17048	10370	12094
65°	13713	10140	11716
70°	11014	9617	10806
75°	8305	8704	9589
80°	6131	7816	8530
85°	4099	7374	7846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.5	3.8
10°-20°	900.2	10.6
20°-30°	1258.4	14.9
30°-40°	1305.3	15.4
40°-50°	1205.9	14.2
50°-60°	1076.6	12.7
60°-70°	872.5	10.3
70°-80°	580.3	6.9
80°-90°	332.3	3.9
90°-100°	183.8	2.2
100°-110°	124.5	1.5
110°-120°	103.7	1.2
120°-130°	84.3	1.0
130°-140°	60.8	0.7
140°-150°	36.7	0.4
150°-160°	17.6	0.2
160°-170°	4.6	0.1
170°-180°	0.0	0.0
0°-30°	2477.1	29.3
0°-40°	3782.4	44.7
0°-60°	6064.9	71.6
0°-90°	7850.1	92.7
90°-120°	412.0	4.9
90°-150°	593.8	7.0
90°-180°	616.0	7.3
0°-180°	8466.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3366	3366	3366	3366	3366	
5°	3402	3344	3362	3339	3334	324
15°	3317	3246	3219	3146	3115	937
25°	3134	2995	2764	2474	2373	1444
35°	2799	2492	1981	1664	1589	1746
45°	2241	1776	1349	1301	1340	1723
55°	1498	1132	1053	1225	1301	1332
65°	765	685	857	1050	1106	773
75°	297	372	578	708	737	326
85°	60	173	341	436	448	69
90°	3	121	269	325	322	5
95°	3	102	214	228	221	2
105°	2	89	154	149	142	2
115°	2	80	136	135	130	1
125°	2	69	120	126	123	2
135°	3	51	95	111	111	2
145°	3	32	66	86	92	2
155°	3	20	41	54	66	1
165°	3	12	20	26	35	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3366.4	3366.4	3366.4	3366.4	3366.4
2.5°	3408.8	3353.3	3370.8	3356.2	3337.2
5°	3401.5	3344.5	3362.0	3338.6	3334.2
7.5°	3388.4	3331.3	3341.5	3313.8	3306.4
10°	3370.8	3310.8	3312.3	3272.8	3262.5
12.5°	3347.4	3281.6	3272.8	3218.7	3204.0
15°	3316.7	3246.5	3218.7	3145.5	3114.8
17.5°	3283.0	3201.1	3144.0	3031.4	2983.1
20°	3237.7	3145.5	3046.0	2874.8	2810.5
22.5°	3192.3	3078.2	2918.7	2690.5	2604.2
25°	3133.8	2994.8	2763.7	2474.0	2373.0
27.5°	3068.0	2896.8	2585.2	2251.6	2143.3
30°	2990.4	2778.3	2389.1	2033.6	1931.2
32.5°	2899.7	2645.1	2182.8	1837.6	1742.5
35°	2798.8	2491.5	1980.9	1663.5	1588.8
37.5°	2683.2	2323.3	1793.7	1523.0	1474.7
40°	2551.5	2140.4	1621.0	1414.7	1398.7
42.5°	2409.6	1961.9	1473.3	1344.5	1359.2
45°	2241.4	1776.1	1348.9	1300.6	1340.1
47.5°	2064.3	1594.7	1248.0	1275.8	1332.8
50°	1893.2	1426.4	1169.0	1259.7	1327.0
52.5°	1681.0	1275.8	1106.0	1245.0	1318.2
55°	1498.1	1132.4	1053.4	1224.6	1300.6
57.5°	1287.5	1003.6	1006.6	1198.2	1274.3
60°	1111.9	886.6	961.2	1161.6	1234.8
62.5°	933.4	781.3	911.5	1113.4	1179.2
65°	765.2	684.7	857.3	1050.5	1106.0
67.5°	624.7	596.9	795.9	974.4	1021.2
70°	506.2	516.4	728.6	889.5	929.0
72.5°	389.2	441.8	655.4	798.8	832.5
75°	297.0	371.6	577.9	708.1	737.4
77.5°	219.5	310.2	507.7	626.2	651.0
80°	155.1	256.0	441.8	554.5	573.5
82.5°	103.9	210.7	387.7	490.1	507.7
85°	60.0	172.6	340.9	436.0	447.7
87.5°	24.9	143.4	302.8	380.4	386.2
90°	2.9	121.4	269.2	324.8	321.9
92.5°	2.9	109.7	239.9	272.1	264.8
95°	2.9	102.4	213.6	228.2	220.9
97.5°	2.9	98.0	190.2	196.0	188.7
100°	1.5	95.1	174.1	174.1	166.8
102.5°	1.5	92.2	162.4	158.0	152.2
105°	1.5	89.2	153.6	149.2	141.9
107.5°	1.5	87.8	147.8	143.4	136.1
110°	1.5	84.9	143.4	139.0	133.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	83.4	140.5	137.5	130.2
115°	1.5	80.5	136.1	134.6	130.2
117.5°	1.5	77.5	133.1	133.1	128.7
120°	1.5	74.6	128.7	131.7	127.3
122.5°	1.5	71.7	124.4	128.7	124.4
125°	1.5	68.8	120.0	125.8	122.9
127.5°	2.9	64.4	114.1	122.9	120.0
130°	1.5	60.0	108.3	120.0	118.5
132.5°	2.9	55.6	102.4	115.6	115.6
135°	2.9	51.2	95.1	111.2	111.2
137.5°	2.9	45.4	87.8	105.3	106.8
140°	2.9	41.0	80.5	99.5	102.4
142.5°	2.9	36.6	73.2	93.6	98.0
145°	2.9	32.2	65.8	86.3	92.2
147.5°	2.9	29.3	58.5	77.5	86.3
150°	2.9	24.9	52.7	70.2	79.0
152.5°	2.9	21.9	46.8	62.9	73.2
155°	2.9	20.5	41.0	54.1	65.8
157.5°	2.9	17.6	35.1	46.8	58.5
160°	2.9	14.6	29.3	41.0	49.7
162.5°	2.9	13.2	24.9	33.6	43.9
165°	2.9	11.7	20.5	26.3	35.1
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)