

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-LD5-71SL-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-LD5-71SL-SLN-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

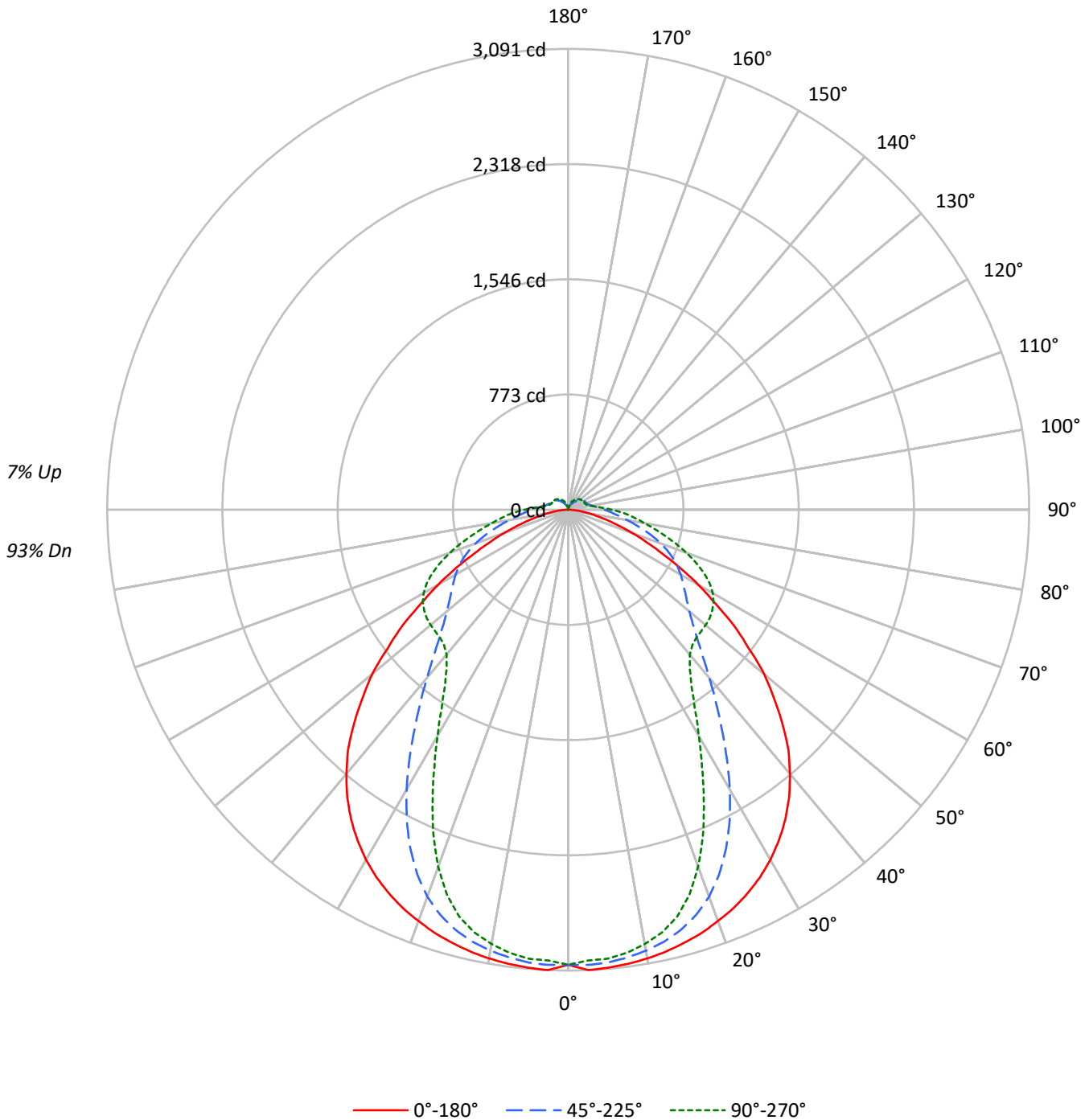
Lumens per Lamp: N/A
Luminaire Lumens: 7676.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
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°	24666	24666	24666
5°	24950	24121	23743
10°	24942	23454	22766
15°	24950	22668	21467
20°	24961	21500	19280
25°	24971	19701	16327
30°	24852	17335	13429
35°	24498	14749	11254
40°	23781	12491	10173
45°	22521	10856	10097
50°	20805	9924	10450
55°	18319	9539	10816
60°	15456	9403	10966
65°	12433	9194	10623
70°	9987	8720	9797
75°	7530	7892	8695
80°	5558	7087	7734
85°	3716	6686	7114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	3.8
10°-20°	816.2	10.6
20°-30°	1141.0	14.9
30°-40°	1183.5	15.4
40°-50°	1093.4	14.2
50°-60°	976.2	12.7
60°-70°	791.1	10.3
70°-80°	526.2	6.9
80°-90°	301.3	3.9
90°-100°	166.7	2.2
100°-110°	112.9	1.5
110°-120°	94.0	1.2
120°-130°	76.4	1.0
130°-140°	55.1	0.7
140°-150°	33.2	0.4
150°-160°	16.0	0.2
160°-170°	4.1	0.1
170°-180°	0.0	0.0
0°-30°	2246.0	29.3
0°-40°	3429.4	44.7
0°-60°	5499.0	71.6
0°-90°	7117.6	92.7
90°-120°	373.6	4.9
90°-150°	538.4	7.0
90°-180°	558.0	7.3
0°-180°	7676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3052	3052	3052	3052	3052	
5°	3084	3032	3048	3027	3023	293
15°	3007	2944	2918	2852	2824	850
25°	2841	2715	2506	2243	2152	1309
35°	2538	2259	1796	1508	1441	1583
45°	2032	1610	1223	1179	1215	1563
55°	1358	1027	955	1110	1179	1208
65°	694	621	777	952	1003	701
75°	269	337	524	642	669	295
85°	54	156	309	395	406	63
90°	3	110	244	294	292	4
95°	3	93	194	207	200	2
105°	1	81	139	135	129	1
115°	1	73	123	122	118	1
125°	1	62	109	114	111	1
135°	3	46	86	101	101	2
145°	3	29	60	78	84	2
155°	3	19	37	49	60	1
165°	3	11	19	24	32	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°	3052.3	3052.3	3052.3	3052.3	3052.3
2.5°	3090.8	3040.3	3056.3	3043.0	3025.8
5°	3084.1	3032.4	3048.3	3027.1	3023.1
7.5°	3072.2	3020.4	3029.7	3004.5	2997.9
10°	3056.3	3001.9	3003.2	2967.4	2958.1
12.5°	3035.0	2975.3	2967.4	2918.3	2905.0
15°	3007.2	2943.5	2918.3	2852.0	2824.1
17.5°	2976.7	2902.4	2850.7	2748.5	2704.7
20°	2935.6	2852.0	2761.8	2606.6	2548.2
22.5°	2894.4	2791.0	2646.4	2439.4	2361.2
25°	2841.4	2715.4	2505.8	2243.1	2151.6
27.5°	2781.7	2626.5	2343.9	2041.5	1943.3
30°	2711.4	2519.0	2166.2	1843.8	1751.0
32.5°	2629.1	2398.3	1979.1	1666.1	1579.9
35°	2537.6	2259.0	1796.1	1508.2	1440.6
37.5°	2432.8	2106.5	1626.3	1380.9	1337.1
40°	2313.4	1940.7	1469.8	1282.7	1268.1
42.5°	2184.8	1778.8	1335.8	1219.1	1232.3
45°	2032.2	1610.4	1223.0	1179.3	1215.1
47.5°	1871.7	1445.9	1131.5	1156.7	1208.4
50°	1716.5	1293.3	1059.9	1142.1	1203.1
52.5°	1524.2	1156.7	1002.8	1128.9	1195.2
55°	1358.3	1026.7	955.1	1110.3	1179.3
57.5°	1167.3	910.0	912.6	1086.4	1155.4
60°	1008.1	803.9	871.5	1053.2	1119.6
62.5°	846.3	708.4	826.4	1009.5	1069.2
65°	693.8	620.8	777.3	952.4	1002.8
67.5°	566.4	541.2	721.6	883.5	925.9
70°	459.0	468.3	660.6	806.5	842.3
72.5°	352.8	400.6	594.3	724.3	754.8
75°	269.3	336.9	524.0	642.0	668.6
77.5°	199.0	281.2	460.3	567.7	590.3
80°	140.6	232.1	400.6	502.7	520.0
82.5°	94.2	191.0	351.5	444.4	460.3
85°	54.4	156.5	309.1	395.3	405.9
87.5°	22.6	130.0	274.6	344.9	350.2
90°	2.7	110.1	244.1	294.5	291.8
92.5°	2.7	99.5	217.5	246.7	240.1
95°	2.7	92.9	193.7	206.9	200.3
97.5°	2.7	88.9	172.4	177.8	171.1
100°	1.3	86.2	157.9	157.9	151.2
102.5°	1.3	83.6	147.2	143.3	138.0
105°	1.3	80.9	139.3	135.3	128.7
107.5°	1.3	79.6	134.0	130.0	123.4
110°	1.3	76.9	130.0	126.0	120.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	75.6	127.3	124.7	118.1
115°	1.3	73.0	123.4	122.0	118.1
117.5°	1.3	70.3	120.7	120.7	116.7
120°	1.3	67.7	116.7	119.4	115.4
122.5°	1.3	65.0	112.8	116.7	112.8
125°	1.3	62.3	108.8	114.1	111.4
127.5°	2.7	58.4	103.5	111.4	108.8
130°	1.3	54.4	98.2	108.8	107.4
132.5°	2.7	50.4	92.9	104.8	104.8
135°	2.7	46.4	86.2	100.8	100.8
137.5°	2.7	41.1	79.6	95.5	96.8
140°	2.7	37.1	73.0	90.2	92.9
142.5°	2.7	33.2	66.3	84.9	88.9
145°	2.7	29.2	59.7	78.3	83.6
147.5°	2.7	26.5	53.1	70.3	78.3
150°	2.7	22.6	47.8	63.7	71.6
152.5°	2.7	19.9	42.4	57.0	66.3
155°	2.7	18.6	37.1	49.1	59.7
157.5°	2.7	15.9	31.8	42.4	53.1
160°	2.7	13.3	26.5	37.1	45.1
162.5°	2.7	11.9	22.6	30.5	39.8
165°	2.7	10.6	18.6	23.9	31.8
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)