

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-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 (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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

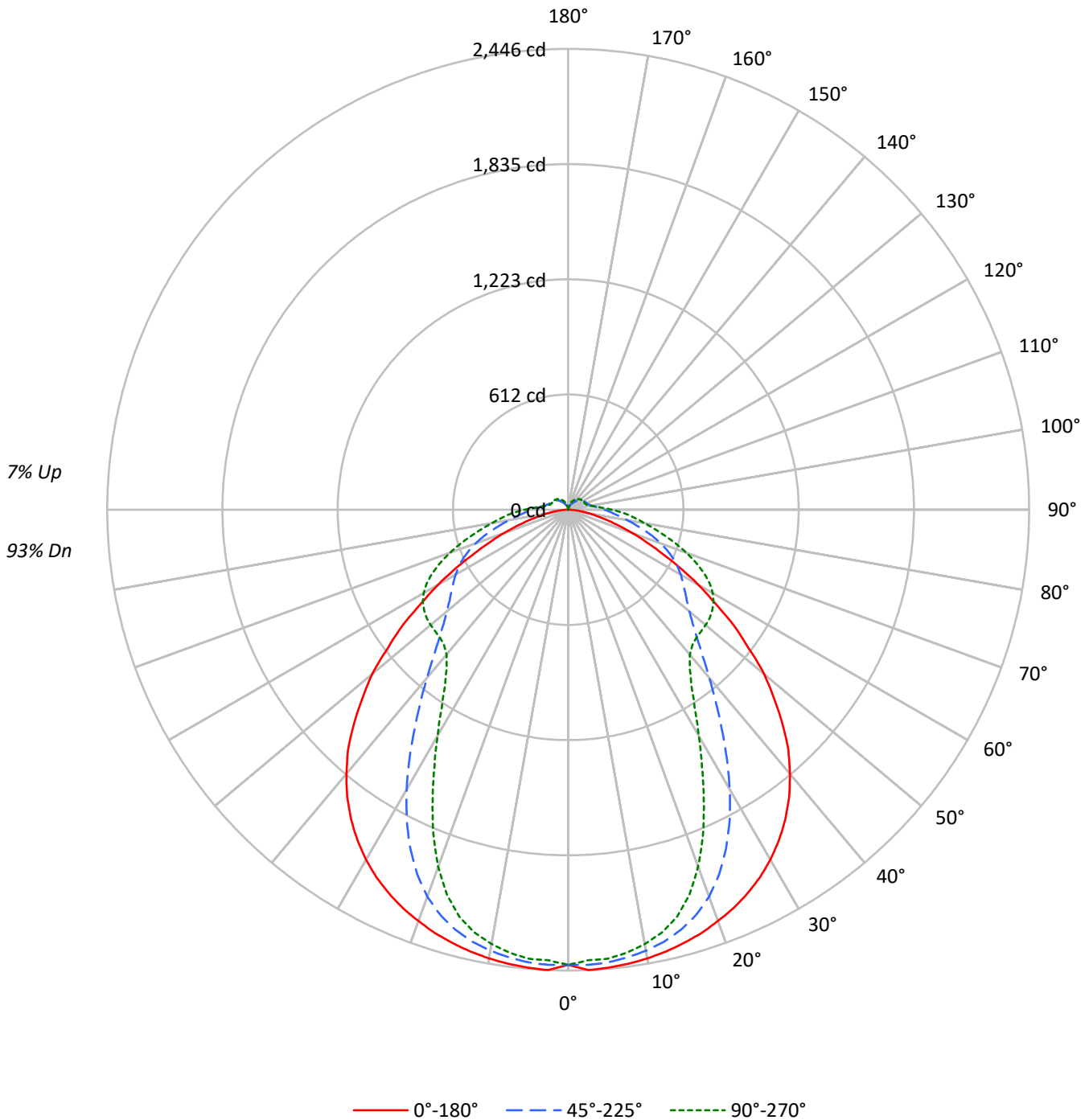
Lumens per Lamp: N/A
Luminaire Lumens: 6074.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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				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	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	79	79	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	66	66	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	57	57	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	49	49	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	43	43	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	39	39	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	35	35	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	31	31	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	28	28	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19518	19518	19518
5°	19743	19087	18788
10°	19736	18559	18015
15°	19743	17937	16987
20°	19751	17013	15256
25°	19760	15589	12919
30°	19665	13717	10626
35°	19385	11671	8905
40°	18818	9884	8050
45°	17821	8590	7989
50°	16463	7853	8269
55°	14497	7549	8558
60°	12230	7440	8677
65°	9838	7275	8406
70°	7903	6900	7752
75°	5959	6244	6879
80°	4400	5608	6120
85°	2938	5291	5629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	3.8
10°-20°	645.9	10.6
20°-30°	902.9	14.9
30°-40°	936.5	15.4
40°-50°	865.2	14.2
50°-60°	772.4	12.7
60°-70°	626.0	10.3
70°-80°	416.4	6.9
80°-90°	238.4	3.9
90°-100°	131.9	2.2
100°-110°	89.3	1.5
110°-120°	74.4	1.2
120°-130°	60.5	1.0
130°-140°	43.6	0.7
140°-150°	26.3	0.4
150°-160°	12.6	0.2
160°-170°	3.3	0.1
170°-180°	0.0	0.0
0°-30°	1777.2	29.3
0°-40°	2713.7	44.7
0°-60°	4351.3	71.6
0°-90°	5632.1	92.7
90°-120°	295.6	4.9
90°-150°	426.0	7.0
90°-180°	442.0	7.3
0°-180°	6074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2415	2415	2415	2415	2415	
5°	2440	2400	2412	2395	2392	232
15°	2380	2329	2309	2257	2235	672
25°	2248	2149	1983	1775	1702	1036
35°	2008	1788	1421	1194	1140	1253
45°	1608	1274	968	933	962	1236
55°	1075	812	756	879	933	956
65°	549	491	615	754	794	555
75°	213	267	415	508	529	234
85°	43	124	245	313	321	49
90°	2	87	193	233	231	3
95°	2	74	153	164	158	2
105°	1	64	110	107	102	1
115°	1	58	98	97	93	1
125°	1	49	86	90	88	1
135°	2	37	68	80	80	2
145°	2	23	47	62	66	1
155°	2	15	29	39	47	1
165°	2	8	15	19	25	0
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°	2415.3	2415.3	2415.3	2415.3	2415.3
2.5°	2445.7	2405.8	2418.4	2407.9	2394.3
5°	2440.5	2399.5	2412.1	2395.3	2392.2
7.5°	2431.0	2390.1	2397.4	2377.5	2372.2
10°	2418.4	2375.4	2376.4	2348.1	2340.7
12.5°	2401.6	2354.4	2348.1	2309.2	2298.8
15°	2379.6	2329.2	2309.2	2256.8	2234.7
17.5°	2355.4	2296.7	2255.7	2174.9	2140.3
20°	2322.9	2256.8	2185.4	2062.6	2016.4
22.5°	2290.4	2208.5	2094.1	1930.3	1868.4
25°	2248.4	2148.7	1982.8	1775.0	1702.5
27.5°	2201.1	2078.3	1854.7	1615.4	1537.8
30°	2145.5	1993.3	1714.1	1459.0	1385.5
32.5°	2080.4	1897.8	1566.1	1318.4	1250.1
35°	2008.0	1787.6	1421.2	1193.5	1139.9
37.5°	1925.1	1666.9	1286.9	1092.7	1058.1
40°	1830.6	1535.7	1163.0	1015.0	1003.5
42.5°	1728.8	1407.6	1057.0	964.6	975.1
45°	1608.1	1274.3	967.8	933.1	961.5
47.5°	1481.1	1144.1	895.4	915.3	956.2
50°	1358.3	1023.4	838.7	903.8	952.0
52.5°	1206.1	915.3	793.5	893.3	945.7
55°	1074.9	812.4	755.8	878.6	933.1
57.5°	923.7	720.1	722.2	859.7	914.3
60°	797.7	636.1	689.6	833.4	885.9
62.5°	669.7	560.5	653.9	798.8	846.0
65°	549.0	491.2	615.1	753.7	793.5
67.5°	448.2	428.3	571.0	699.1	732.7
70°	363.2	370.5	522.7	638.2	666.5
72.5°	279.2	317.0	470.2	573.1	597.3
75°	213.1	266.6	414.6	508.0	529.0
77.5°	157.4	222.5	364.2	449.3	467.1
80°	111.3	183.7	317.0	397.8	411.5
82.5°	74.5	151.2	278.2	351.6	364.2
85°	43.0	123.9	244.6	312.8	321.2
87.5°	17.8	102.9	217.3	272.9	277.1
90°	2.1	87.1	193.1	233.0	230.9
92.5°	2.1	78.7	172.1	195.2	190.0
95°	2.1	73.5	153.3	163.7	158.5
97.5°	2.1	70.3	136.5	140.7	135.4
100°	1.0	68.2	124.9	124.9	119.7
102.5°	1.0	66.1	116.5	113.4	109.2
105°	1.0	64.0	110.2	107.1	101.8
107.5°	1.0	63.0	106.0	102.9	97.6
110°	1.0	60.9	102.9	99.7	95.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	59.8	100.8	98.7	93.4
115°	1.0	57.7	97.6	96.6	93.4
117.5°	1.0	55.6	95.5	95.5	92.4
120°	1.0	53.5	92.4	94.5	91.3
122.5°	1.0	51.4	89.2	92.4	89.2
125°	1.0	49.3	86.1	90.3	88.2
127.5°	2.1	46.2	81.9	88.2	86.1
130°	1.0	43.0	77.7	86.1	85.0
132.5°	2.1	39.9	73.5	82.9	82.9
135°	2.1	36.7	68.2	79.8	79.8
137.5°	2.1	32.5	63.0	75.6	76.6
140°	2.1	29.4	57.7	71.4	73.5
142.5°	2.1	26.2	52.5	67.2	70.3
145°	2.1	23.1	47.2	61.9	66.1
147.5°	2.1	21.0	42.0	55.6	61.9
150°	2.1	17.8	37.8	50.4	56.7
152.5°	2.1	15.7	33.6	45.1	52.5
155°	2.1	14.7	29.4	38.8	47.2
157.5°	2.1	12.6	25.2	33.6	42.0
160°	2.1	10.5	21.0	29.4	35.7
162.5°	2.1	9.4	17.8	24.1	31.5
165°	2.1	8.4	14.7	18.9	25.2
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)