

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-LD5-76HL-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-76HL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

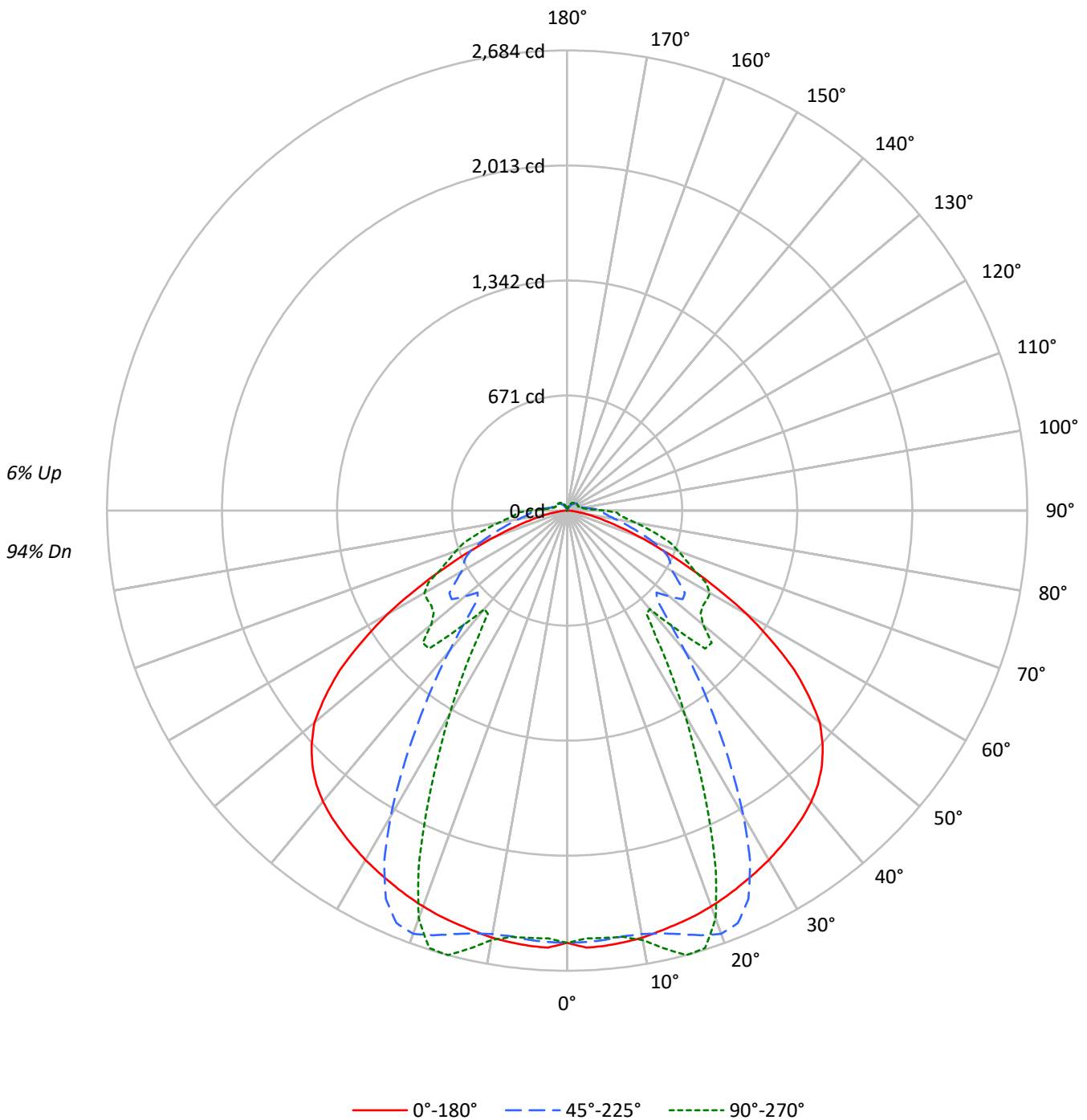
Lumens per Lamp: N/A
Luminaire Lumens: 6474.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 62
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°	20367	20367	20367
5°	20614	19890	19645
10°	20640	19587	19577
15°	20697	19863	20405
20°	20889	20454	19152
25°	21149	19657	14748
30°	21566	16464	10490
35°	22101	12469	7103
40°	22776	9065	6014
45°	23293	6575	9456
50°	23326	7281	8974
55°	21803	8380	8862
60°	18576	7668	9419
65°	13974	7733	8616
70°	9807	7039	8020
75°	6426	5898	7197
80°	4103	5052	5991
85°	2213	4802	5377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	3.7
10°-20°	724.1	11.2
20°-30°	1051.9	16.2
30°-40°	1005.0	15.5
40°-50°	919.3	14.2
50°-60°	848.8	13.1
60°-70°	674.2	10.4
70°-80°	416.2	6.4
80°-90°	226.6	3.5
90°-100°	114.5	1.8
100°-110°	72.0	1.1
110°-120°	61.0	0.9
120°-130°	49.8	0.8
130°-140°	35.7	0.6
140°-150°	22.0	0.3
150°-160°	10.5	0.2
160°-170°	2.7	0.0
170°-180°	0.0	0.0
0°-30°	2015.7	31.1
0°-40°	3020.7	46.7
0°-60°	4788.8	74.0
0°-90°	6105.8	94.3
90°-120°	247.5	3.8
90°-150°	355.0	5.5
90°-180°	368.0	5.7
0°-180°	6474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2520	2520	2520	2520	2520	
5°	2548	2509	2514	2500	2501	242
15°	2495	2461	2557	2652	2684	706
25°	2406	2453	2500	2116	1944	1112
35°	2289	2252	1518	1045	909	1436
45°	2102	1466	741	945	1138	1615
55°	1617	752	839	903	966	1424
65°	780	488	654	794	813	789
75°	230	260	392	519	553	261
85°	32	110	222	302	307	41
90°	1	83	199	235	218	2
95°	0	77	137	122	115	0
105°	0	69	85	77	76	0
115°	0	57	81	72	69	1
125°	1	46	72	70	67	1
135°	1	32	58	64	61	1
145°	1	20	40	51	55	1
155°	2	12	24	32	39	1
165°	2	7	12	16	21	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°	2520.3	2520.3	2520.3	2520.3	2520.3
2.5°	2551.5	2514.7	2519.2	2511.3	2498.0
5°	2548.2	2509.1	2513.6	2500.2	2501.3
7.5°	2539.2	2499.1	2504.6	2502.4	2508.0
10°	2529.2	2486.8	2508.0	2527.0	2543.7
12.5°	2511.3	2473.4	2524.7	2580.5	2615.1
15°	2494.6	2461.1	2557.1	2651.9	2684.3
17.5°	2477.9	2456.7	2597.2	2679.8	2675.3
20°	2456.7	2454.4	2627.4	2599.5	2531.4
22.5°	2433.2	2455.6	2603.9	2399.8	2265.9
25°	2406.5	2453.3	2500.2	2116.4	1943.5
27.5°	2379.7	2443.3	2311.6	1806.2	1635.6
30°	2352.9	2416.5	2057.3	1522.9	1367.8
32.5°	2321.7	2358.5	1780.6	1271.8	1129.0
35°	2289.3	2252.5	1518.4	1045.4	909.3
37.5°	2255.9	2099.7	1283.0	846.8	759.8
40°	2215.7	1907.8	1066.6	726.3	749.7
42.5°	2165.5	1691.3	875.8	762.0	924.9
45°	2101.9	1466.0	740.8	945.0	1138.0
47.5°	2021.6	1249.5	707.3	1082.2	1142.4
50°	1924.5	1050.9	777.6	1037.6	1033.1
52.5°	1777.2	885.8	849.0	946.1	981.8
55°	1616.6	752.0	839.0	902.6	966.2
57.5°	1413.5	661.6	769.8	893.6	967.3
60°	1211.6	601.3	710.7	892.5	961.7
62.5°	988.5	546.7	680.6	871.3	912.6
65°	779.8	487.5	653.8	794.3	813.3
67.5°	598.0	427.3	606.9	708.4	746.4
70°	450.7	368.2	533.3	642.6	689.5
72.5°	324.7	312.4	457.4	584.6	633.7
75°	229.8	259.9	391.6	518.8	553.4
77.5°	158.4	212.0	335.8	446.3	474.2
80°	103.8	169.6	285.6	383.8	402.8
82.5°	62.5	136.1	247.7	335.8	345.9
85°	32.4	110.4	222.0	302.3	306.8
87.5°	10.0	92.6	207.5	286.7	292.3
90°	1.1	82.6	198.6	235.4	217.6
92.5°	0.0	78.1	171.8	160.7	143.9
95°	0.0	77.0	137.2	121.6	114.9
97.5°	0.0	74.7	112.7	101.5	98.2
100°	0.0	72.5	97.1	89.3	88.1
102.5°	0.0	71.4	88.1	81.4	80.3
105°	0.0	69.2	84.8	77.0	75.9
107.5°	0.0	65.8	82.6	74.7	72.5
110°	0.0	62.5	82.6	73.6	70.3



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CATALOG NUMBER: 4SNLED-LD5-76HL-SLC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	59.1	82.6	72.5	69.2
115°	0.0	56.9	81.4	72.5	69.2
117.5°	1.1	54.7	80.3	72.5	69.2
120°	0.0	52.4	78.1	72.5	68.1
122.5°	1.1	49.1	75.9	71.4	68.1
125°	1.1	45.7	72.5	70.3	66.9
127.5°	1.1	42.4	69.2	68.1	64.7
130°	1.1	39.0	65.8	66.9	63.6
132.5°	1.1	35.7	61.4	64.7	62.5
135°	1.1	32.4	58.0	63.6	61.4
137.5°	1.1	29.0	53.6	60.2	60.2
140°	1.1	25.7	49.1	58.0	59.1
142.5°	1.1	23.4	44.6	55.8	56.9
145°	1.1	20.1	40.2	51.3	54.7
147.5°	1.1	17.9	35.7	46.9	51.3
150°	1.1	15.6	31.2	42.4	46.9
152.5°	1.1	13.4	27.9	36.8	43.5
155°	2.2	12.3	24.5	32.4	39.0
157.5°	2.2	10.0	20.1	27.9	33.5
160°	2.2	8.9	17.9	23.4	30.1
162.5°	2.2	7.8	14.5	20.1	25.7
165°	2.2	6.7	12.3	15.6	21.2
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)