

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-LD5-74HL-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-LD5-74HL-SLN-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

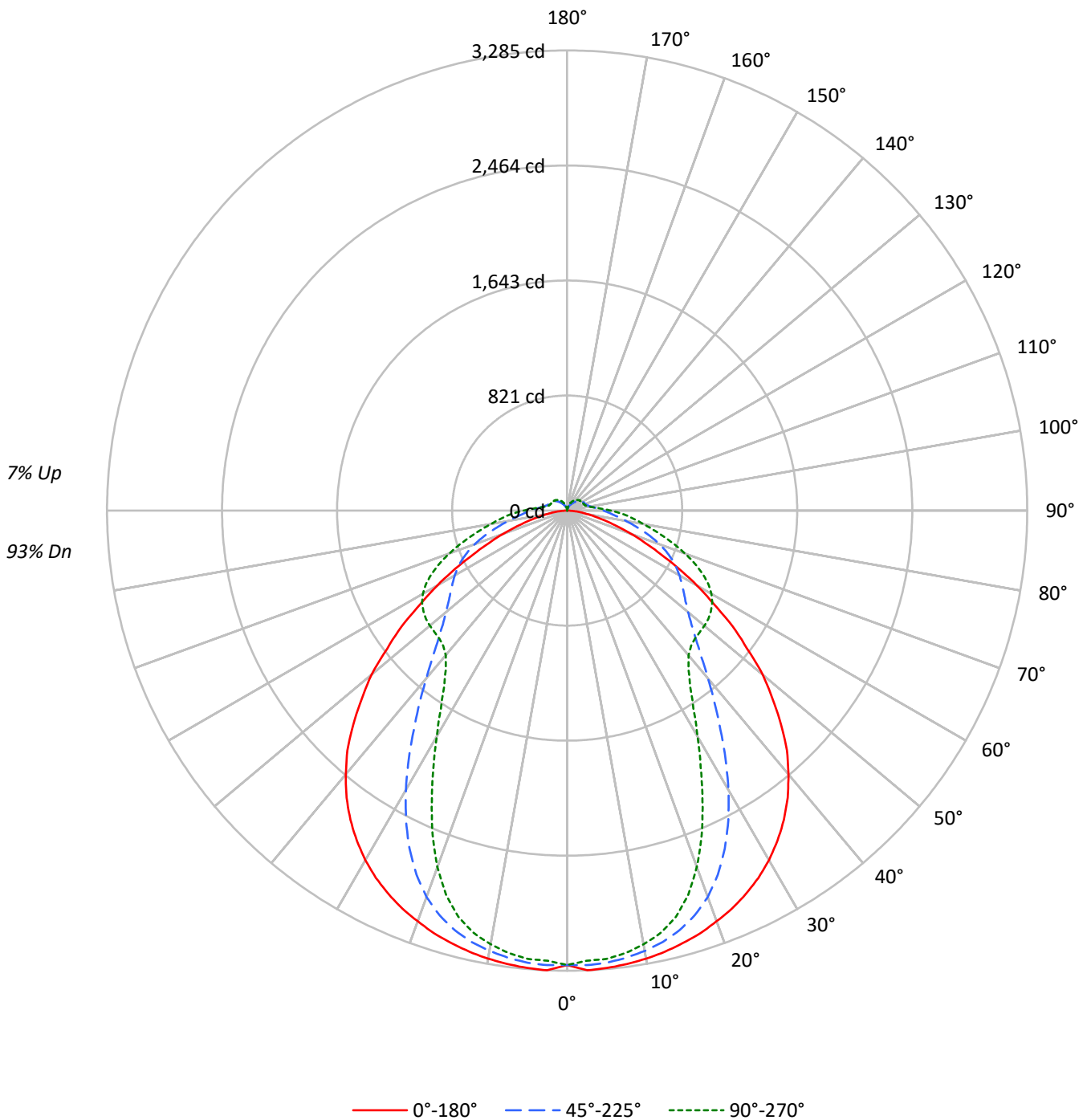
Lumens per Lamp: N/A
Luminaire Lumens: 8158.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L835-CD1-U

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°	26214	26214	26214
5°	26517	25635	25234
10°	26508	24927	24196
15°	26516	24092	22816
20°	26528	22850	20490
25°	26539	20938	17352
30°	26412	18424	14271
35°	26035	15676	11960
40°	25274	13276	10812
45°	23935	11537	10731
50°	22111	10547	11107
55°	19470	10138	11495
60°	16427	9993	11654
65°	13213	9771	11291
70°	10614	9268	10412
75°	8003	8388	9240
80°	5906	7532	8219
85°	3949	7106	7560



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.9	3.8
10°-20°	867.5	10.6
20°-30°	1212.6	14.9
30°-40°	1257.8	15.4
40°-50°	1162.0	14.2
50°-60°	1037.4	12.7
60°-70°	840.8	10.3
70°-80°	559.2	6.9
80°-90°	320.2	3.9
90°-100°	177.2	2.2
100°-110°	120.0	1.5
110°-120°	99.9	1.2
120°-130°	81.2	1.0
130°-140°	58.6	0.7
140°-150°	35.3	0.4
150°-160°	17.0	0.2
160°-170°	4.4	0.1
170°-180°	0.0	0.0
0°-30°	2387.0	29.3
0°-40°	3644.8	44.7
0°-60°	5844.2	71.6
0°-90°	7564.5	92.7
90°-120°	397.0	4.9
90°-150°	572.1	7.0
90°-180°	594.0	7.3
0°-180°	8158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3244	3244	3244	3244	3244	
5°	3278	3223	3240	3217	3213	312
15°	3196	3128	3102	3031	3002	903
25°	3020	2886	2663	2384	2287	1391
35°	2697	2401	1909	1603	1531	1683
45°	2160	1712	1300	1253	1291	1661
55°	1444	1091	1015	1180	1253	1284
65°	737	660	826	1012	1066	745
75°	286	358	557	682	710	314
85°	58	166	328	420	431	67
90°	3	117	259	313	310	4
95°	3	99	206	220	213	2
105°	1	86	148	144	137	1
115°	1	78	131	130	126	1
125°	1	66	116	121	118	2
135°	3	49	92	107	107	2
145°	3	31	63	83	89	2
155°	3	20	40	52	63	1
165°	3	11	20	25	34	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3243.9	3243.9	3243.9	3243.9	3243.9
2.5°	3284.8	3231.3	3248.2	3234.1	3215.8
5°	3277.8	3222.8	3239.7	3217.2	3212.9
7.5°	3265.1	3210.1	3220.0	3193.2	3186.1
10°	3248.2	3190.4	3191.8	3153.7	3143.9
12.5°	3225.6	3162.2	3153.7	3101.6	3087.5
15°	3196.0	3128.3	3101.6	3031.1	3001.5
17.5°	3163.6	3084.6	3029.7	2921.1	2874.6
20°	3119.9	3031.1	2935.2	2770.3	2708.2
22.5°	3076.2	2966.2	2812.5	2592.6	2509.4
25°	3019.8	2885.9	2663.1	2384.0	2286.7
27.5°	2956.3	2791.4	2491.1	2169.7	2065.4
30°	2881.6	2677.2	2302.2	1959.6	1860.9
32.5°	2794.2	2548.9	2103.4	1770.7	1679.1
35°	2696.9	2400.9	1908.9	1602.9	1531.0
37.5°	2585.6	2238.8	1728.4	1467.6	1421.1
40°	2458.7	2062.5	1562.1	1363.3	1347.8
42.5°	2321.9	1890.5	1419.7	1295.6	1309.7
45°	2159.8	1711.5	1299.8	1253.3	1291.4
47.5°	1989.2	1536.7	1202.6	1229.3	1284.3
50°	1824.3	1374.6	1126.4	1213.8	1278.7
52.5°	1619.9	1229.3	1065.8	1199.7	1270.2
55°	1443.6	1091.2	1015.1	1180.0	1253.3
57.5°	1240.6	967.1	969.9	1154.6	1227.9
60°	1071.4	854.3	926.2	1119.4	1189.9
62.5°	899.5	752.8	878.3	1072.9	1136.3
65°	737.3	659.8	826.1	1012.2	1065.8
67.5°	602.0	575.2	766.9	938.9	984.0
70°	487.8	497.7	702.1	857.2	895.2
72.5°	375.0	425.8	631.6	769.8	802.2
75°	286.2	358.1	556.9	682.3	710.5
77.5°	211.5	298.9	489.2	603.4	627.4
80°	149.4	246.7	425.8	534.3	552.6
82.5°	100.1	203.0	373.6	472.3	489.2
85°	57.8	166.4	328.5	420.1	431.4
87.5°	24.0	138.2	291.8	366.5	372.2
90°	2.8	117.0	259.4	313.0	310.2
92.5°	2.8	105.7	231.2	262.2	255.2
95°	2.8	98.7	205.8	219.9	212.9
97.5°	2.8	94.5	183.3	188.9	181.9
100°	1.4	91.6	167.8	167.8	160.7
102.5°	1.4	88.8	156.5	152.3	146.6
105°	1.4	86.0	148.0	143.8	136.8
107.5°	1.4	84.6	142.4	138.2	131.1
110°	1.4	81.8	138.2	133.9	128.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	80.4	135.3	132.5	125.5
115°	1.4	77.5	131.1	129.7	125.5
117.5°	1.4	74.7	128.3	128.3	124.1
120°	1.4	71.9	124.1	126.9	122.7
122.5°	1.4	69.1	119.8	124.1	119.8
125°	1.4	66.3	115.6	121.2	118.4
127.5°	2.8	62.0	110.0	118.4	115.6
130°	1.4	57.8	104.3	115.6	114.2
132.5°	2.8	53.6	98.7	111.4	111.4
135°	2.8	49.3	91.6	107.1	107.1
137.5°	2.8	43.7	84.6	101.5	102.9
140°	2.8	39.5	77.5	95.9	98.7
142.5°	2.8	35.2	70.5	90.2	94.5
145°	2.8	31.0	63.4	83.2	88.8
147.5°	2.8	28.2	56.4	74.7	83.2
150°	2.8	24.0	50.8	67.7	76.1
152.5°	2.8	21.1	45.1	60.6	70.5
155°	2.8	19.7	39.5	52.2	63.4
157.5°	2.8	16.9	33.8	45.1	56.4
160°	2.8	14.1	28.2	39.5	47.9
162.5°	2.8	12.7	24.0	32.4	42.3
165°	2.8	11.3	19.7	25.4	33.8
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)