

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-L940-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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

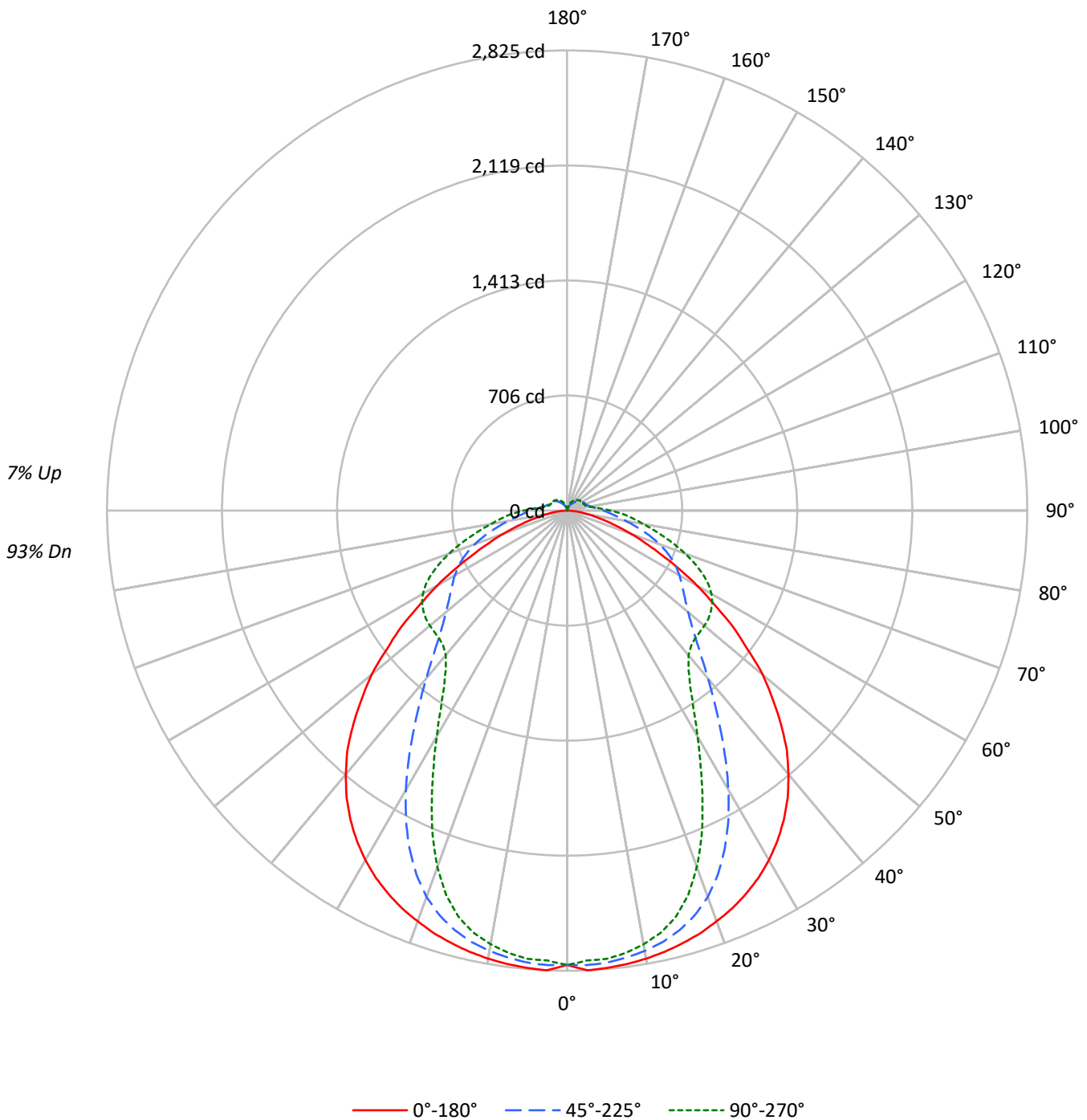
Lumens per Lamp: N/A
Luminaire Lumens: 7015.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



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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	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°	22541	22541	22541
5°	22801	22044	21699
10°	22794	21435	20806
15°	22801	20716	19619
20°	22812	19649	17620
25°	22821	18005	14921
30°	22712	15842	12272
35°	22388	13479	10284
40°	21733	11415	9297
45°	20581	9921	9227
50°	19013	9069	9550
55°	16743	8717	9885
60°	14126	8593	10021
65°	11362	8403	9709
70°	9126	7969	8954
75°	6881	7211	7946
80°	5080	6476	7068
85°	3395	6111	6502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	3.8
10°-20°	745.9	10.6
20°-30°	1042.7	14.9
30°-40°	1081.6	15.4
40°-50°	999.2	14.2
50°-60°	892.1	12.7
60°-70°	723.0	10.3
70°-80°	480.9	6.9
80°-90°	275.4	3.9
90°-100°	152.3	2.2
100°-110°	103.2	1.5
110°-120°	85.9	1.2
120°-130°	69.8	1.0
130°-140°	50.4	0.7
140°-150°	30.4	0.4
150°-160°	14.6	0.2
160°-170°	3.8	0.1
170°-180°	0.0	0.0
0°-30°	2052.6	29.3
0°-40°	3134.1	44.7
0°-60°	5025.4	71.6
0°-90°	6504.6	92.7
90°-120°	341.4	4.9
90°-150°	492.0	7.0
90°-180°	510.0	7.3
0°-180°	7015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2789	2789	2789	2789	2789	
5°	2818	2771	2786	2766	2763	268
15°	2748	2690	2667	2606	2581	777
25°	2597	2482	2290	2050	1966	1197
35°	2319	2064	1641	1378	1316	1447
45°	1857	1472	1118	1078	1110	1428
55°	1241	938	873	1015	1078	1104
65°	634	567	710	870	916	641
75°	246	308	479	587	611	270
85°	50	143	282	361	371	57
90°	2	101	223	269	267	4
95°	2	85	177	189	183	2
105°	1	74	127	124	118	1
115°	1	67	113	112	108	1
125°	1	57	99	104	102	1
135°	2	42	79	92	92	2
145°	2	27	55	72	76	2
155°	2	17	34	45	55	1
165°	2	10	17	22	29	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-74HL-SLN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2789.4	2789.4	2789.4	2789.4	2789.4
2.5°	2824.6	2778.5	2793.1	2781.0	2765.2
5°	2818.5	2771.3	2785.8	2766.4	2762.8
7.5°	2807.6	2760.4	2768.8	2745.8	2739.7
10°	2793.1	2743.4	2744.6	2711.9	2703.4
12.5°	2773.7	2719.1	2711.9	2667.0	2654.9
15°	2748.2	2690.0	2667.0	2606.4	2580.9
17.5°	2720.3	2652.5	2605.2	2511.8	2471.8
20°	2682.8	2606.4	2524.0	2382.1	2328.8
22.5°	2645.2	2550.6	2418.5	2229.4	2157.8
25°	2596.7	2481.5	2290.0	2050.0	1966.3
27.5°	2542.1	2400.3	2142.1	1865.7	1776.0
30°	2477.9	2302.1	1979.6	1685.1	1600.2
32.5°	2402.7	2191.8	1808.7	1522.6	1443.8
35°	2319.1	2064.5	1641.4	1378.4	1316.5
37.5°	2223.3	1925.1	1486.2	1262.0	1222.0
40°	2114.2	1773.6	1343.2	1172.3	1158.9
42.5°	1996.6	1625.7	1220.8	1114.1	1126.2
45°	1857.2	1471.7	1117.7	1077.7	1110.4
47.5°	1710.5	1321.4	1034.1	1057.1	1104.4
50°	1568.7	1182.0	968.6	1043.8	1099.5
52.5°	1392.9	1057.1	916.5	1031.6	1092.3
55°	1241.4	938.3	872.8	1014.7	1077.7
57.5°	1066.8	831.6	834.0	992.9	1055.9
60°	921.3	734.6	796.5	962.5	1023.2
62.5°	773.4	647.4	755.2	922.5	977.1
65°	634.0	567.3	710.4	870.4	916.5
67.5°	517.6	494.6	659.5	807.4	846.2
70°	419.4	427.9	603.7	737.1	769.8
72.5°	322.5	366.1	543.1	661.9	689.8
75°	246.1	307.9	478.8	586.7	611.0
77.5°	181.8	257.0	420.7	518.9	539.5
80°	128.5	212.1	366.1	459.5	475.2
82.5°	86.1	174.6	321.3	406.1	420.7
85°	49.7	143.0	282.5	361.3	371.0
87.5°	20.6	118.8	250.9	315.2	320.0
90°	2.4	100.6	223.1	269.1	266.7
92.5°	2.4	90.9	198.8	225.5	219.4
95°	2.4	84.9	177.0	189.1	183.1
97.5°	2.4	81.2	157.6	162.4	156.4
100°	1.2	78.8	144.3	144.3	138.2
102.5°	1.2	76.4	134.6	130.9	126.1
105°	1.2	73.9	127.3	123.7	117.6
107.5°	1.2	72.7	122.4	118.8	112.7
110°	1.2	70.3	118.8	115.2	110.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	69.1	116.4	114.0	107.9
115°	1.2	66.7	112.7	111.5	107.9
117.5°	1.2	64.3	110.3	110.3	106.7
120°	1.2	61.8	106.7	109.1	105.5
122.5°	1.2	59.4	103.0	106.7	103.0
125°	1.2	57.0	99.4	104.3	101.8
127.5°	2.4	53.3	94.6	101.8	99.4
130°	1.2	49.7	89.7	99.4	98.2
132.5°	2.4	46.1	84.9	95.8	95.8
135°	2.4	42.4	78.8	92.1	92.1
137.5°	2.4	37.6	72.7	87.3	88.5
140°	2.4	33.9	66.7	82.4	84.9
142.5°	2.4	30.3	60.6	77.6	81.2
145°	2.4	26.7	54.6	71.5	76.4
147.5°	2.4	24.2	48.5	64.3	71.5
150°	2.4	20.6	43.6	58.2	65.5
152.5°	2.4	18.2	38.8	52.1	60.6
155°	2.4	17.0	33.9	44.9	54.6
157.5°	2.4	14.5	29.1	38.8	48.5
160°	2.4	12.1	24.2	33.9	41.2
162.5°	2.4	10.9	20.6	27.9	36.4
165°	2.4	9.7	17.0	21.8	29.1
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)