

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

Summary

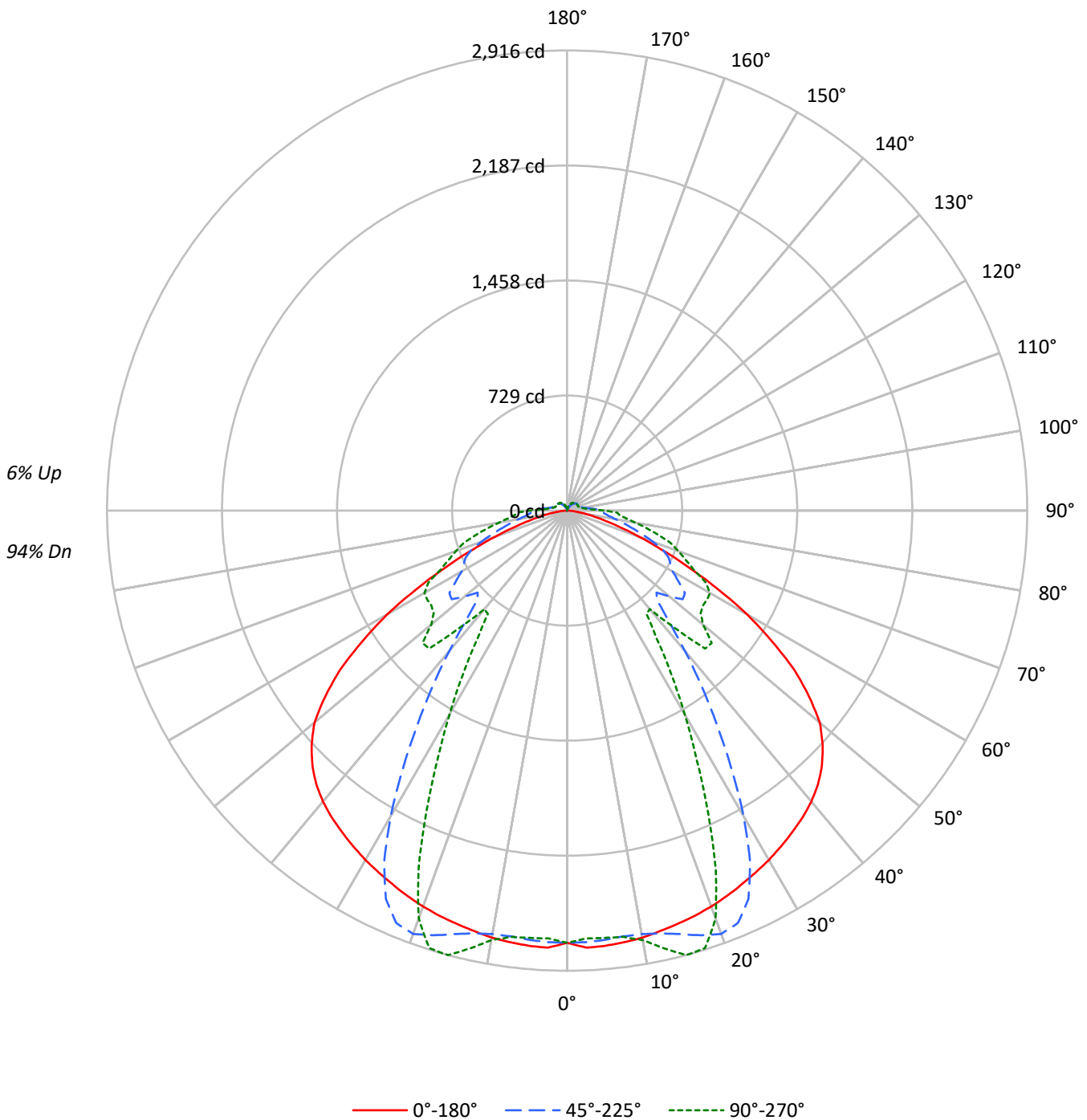
Lumens per Lamp: N/A
Luminaire Lumens: 7034.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 62
Input Voltage (V): NR
Input Current (A_{in}): 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°	22128	22128	22128
5°	22397	21610	21345
10°	22426	21281	21270
15°	22487	21581	22170
20°	22696	22223	20809
25°	22978	21358	16023
30°	23431	17888	11397
35°	24013	13547	7717
40°	24746	9848	6535
45°	25308	7144	10274
50°	25344	7911	9750
55°	23688	9104	9628
60°	20183	8330	10234
65°	15184	8401	9362
70°	10655	7648	8713
75°	6982	6408	7818
80°	4455	5489	6509
85°	2405	5217	5841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	3.7
10°-20°	786.7	11.2
20°-30°	1142.8	16.2
30°-40°	1091.9	15.5
40°-50°	998.8	14.2
50°-60°	922.2	13.1
60°-70°	732.6	10.4
70°-80°	452.2	6.4
80°-90°	246.2	3.5
90°-100°	124.5	1.8
100°-110°	78.2	1.1
110°-120°	66.2	0.9
120°-130°	54.1	0.8
130°-140°	38.8	0.6
140°-150°	23.9	0.3
150°-160°	11.4	0.2
160°-170°	2.9	0.0
170°-180°	0.0	0.0
0°-30°	2190.1	31.1
0°-40°	3282.0	46.7
0°-60°	5203.1	74.0
0°-90°	6634.0	94.3
90°-120°	268.9	3.8
90°-150°	385.7	5.5
90°-180°	400.0	5.7
0°-180°	7034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2738	2738	2738	2738	2738	
5°	2769	2726	2731	2716	2718	263
15°	2710	2674	2778	2881	2916	767
25°	2615	2666	2716	2300	2112	1208
35°	2487	2447	1650	1136	988	1560
45°	2284	1593	805	1027	1236	1755
55°	1756	817	912	981	1050	1547
65°	847	530	710	863	884	857
75°	250	282	426	564	601	283
85°	35	120	241	328	333	45
90°	1	90	216	256	236	2
95°	0	84	149	132	125	0
105°	0	75	92	84	82	0
115°	0	62	88	79	75	1
125°	1	50	79	76	73	1
135°	1	35	63	69	67	1
145°	1	22	44	56	59	1
155°	2	13	27	35	42	1
165°	2	7	13	17	23	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°	2738.3	2738.3	2738.3	2738.3	2738.3
2.5°	2772.2	2732.2	2737.1	2728.6	2714.0
5°	2768.6	2726.1	2731.0	2716.5	2717.7
7.5°	2758.9	2715.2	2721.3	2718.9	2724.9
10°	2748.0	2701.9	2724.9	2745.5	2763.7
12.5°	2728.6	2687.4	2743.1	2803.7	2841.3
15°	2710.4	2674.0	2778.3	2881.3	2916.5
17.5°	2692.2	2669.2	2821.9	2911.6	2906.8
20°	2669.2	2666.8	2854.6	2824.3	2750.4
22.5°	2643.7	2668.0	2829.2	2607.4	2461.9
25°	2614.6	2665.5	2716.5	2299.5	2111.6
27.5°	2585.5	2654.6	2511.6	1962.5	1777.0
30°	2556.4	2625.5	2235.2	1654.6	1486.1
32.5°	2522.5	2562.5	1934.6	1381.9	1226.7
35°	2487.4	2447.4	1649.7	1135.8	987.9
37.5°	2451.0	2281.3	1394.0	920.0	825.5
40°	2407.3	2072.8	1158.8	789.1	814.6
42.5°	2352.8	1837.6	951.5	827.9	1004.9
45°	2283.7	1592.8	804.9	1026.7	1236.4
47.5°	2196.4	1357.6	768.5	1175.8	1241.3
50°	2091.0	1141.9	844.9	1127.3	1122.5
52.5°	1931.0	962.5	922.5	1027.9	1066.7
55°	1756.4	817.0	911.5	980.6	1049.7
57.5°	1535.8	718.8	836.4	970.9	1050.9
60°	1316.4	653.4	772.1	969.7	1044.9
62.5°	1074.0	594.0	739.4	946.7	991.5
65°	847.3	529.7	710.3	863.1	883.7
67.5°	649.7	464.3	659.4	769.7	810.9
70°	489.7	400.0	579.4	698.2	749.1
72.5°	352.7	339.4	497.0	635.2	688.5
75°	249.7	282.4	425.5	563.7	601.2
77.5°	172.1	230.3	364.9	484.9	515.2
80°	112.7	184.2	310.3	417.0	437.6
82.5°	67.9	147.9	269.1	364.9	375.8
85°	35.2	120.0	241.2	328.5	333.3
87.5°	10.9	100.6	225.5	311.5	317.6
90°	1.2	89.7	215.8	255.8	236.4
92.5°	0.0	84.9	186.7	174.6	156.4
95°	0.0	83.6	149.1	132.1	124.9
97.5°	0.0	81.2	122.4	110.3	106.7
100°	0.0	78.8	105.5	97.0	95.8
102.5°	0.0	77.6	95.8	88.5	87.3
105°	0.0	75.2	92.1	83.6	82.4
107.5°	0.0	71.5	89.7	81.2	78.8
110°	0.0	67.9	89.7	80.0	76.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	64.2	89.7	78.8	75.2
115°	0.0	61.8	88.5	78.8	75.2
117.5°	1.2	59.4	87.3	78.8	75.2
120°	0.0	57.0	84.9	78.8	73.9
122.5°	1.2	53.3	82.4	77.6	73.9
125°	1.2	49.7	78.8	76.4	72.7
127.5°	1.2	46.1	75.2	73.9	70.3
130°	1.2	42.4	71.5	72.7	69.1
132.5°	1.2	38.8	66.7	70.3	67.9
135°	1.2	35.2	63.0	69.1	66.7
137.5°	1.2	31.5	58.2	65.5	65.5
140°	1.2	27.9	53.3	63.0	64.2
142.5°	1.2	25.5	48.5	60.6	61.8
145°	1.2	21.8	43.6	55.8	59.4
147.5°	1.2	19.4	38.8	50.9	55.8
150°	1.2	17.0	33.9	46.1	50.9
152.5°	1.2	14.5	30.3	40.0	47.3
155°	2.4	13.3	26.7	35.2	42.4
157.5°	2.4	10.9	21.8	30.3	36.4
160°	2.4	9.7	19.4	25.5	32.7
162.5°	2.4	8.5	15.8	21.8	27.9
165°	2.4	7.3	13.3	17.0	23.0
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)