

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-LD5-60HL-SLC-UNV-L840-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-LD5-60HL-SLC-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

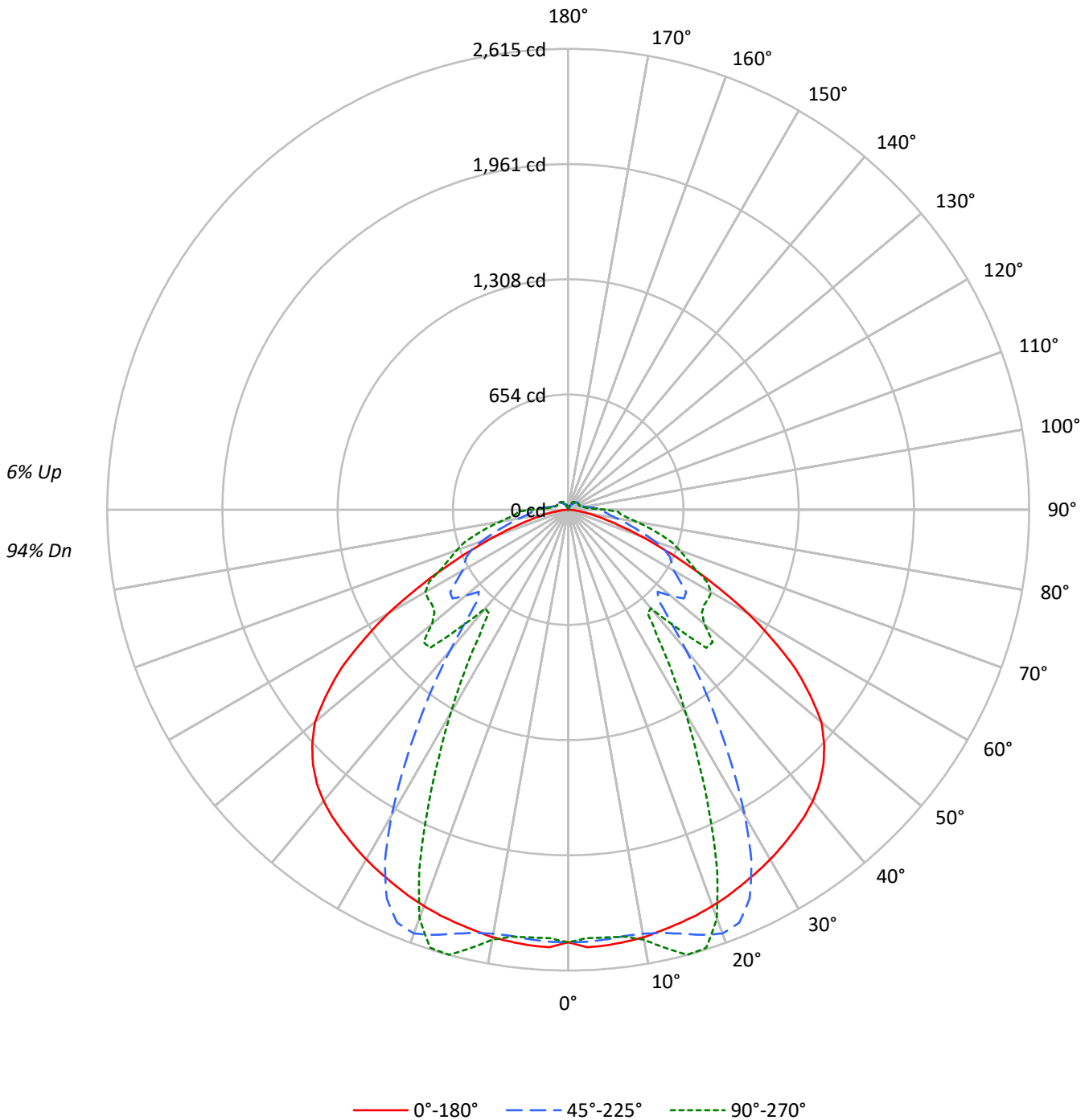
Lumens per Lamp: N/A
Luminaire Lumens: 6306.0 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
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	64	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°	19838	19838	19838
5°	20079	19373	19135
10°	20105	19078	19069
15°	20160	19347	19875
20°	20347	19923	18655
25°	20600	19147	14364
30°	21007	16037	10218
35°	21527	12145	6919
40°	22185	8829	5859
45°	22689	6405	9210
50°	22721	7092	8741
55°	21236	8162	8632
60°	18095	7468	9174
65°	13612	7532	8392
70°	9552	6856	7812
75°	6261	5744	7009
80°	3997	4921	5835
85°	2152	4679	5237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	3.7
10°-20°	705.3	11.2
20°-30°	1024.6	16.2
30°-40°	978.9	15.5
40°-50°	895.4	14.2
50°-60°	826.8	13.1
60°-70°	656.7	10.4
70°-80°	405.3	6.4
80°-90°	220.7	3.5
90°-100°	111.6	1.8
100°-110°	70.1	1.1
110°-120°	59.4	0.9
120°-130°	48.5	0.8
130°-140°	34.8	0.6
140°-150°	21.5	0.3
150°-160°	10.2	0.2
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	1963.4	31.1
0°-40°	2942.3	46.7
0°-60°	4664.6	74.0
0°-90°	5947.4	94.3
90°-120°	241.0	3.8
90°-150°	345.8	5.5
90°-180°	359.0	5.7
0°-180°	6306.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2455	2455	2455	2455	2455	
5°	2482	2444	2448	2435	2436	236
15°	2430	2397	2491	2583	2615	688
25°	2344	2390	2435	2062	1893	1083
35°	2230	2194	1479	1018	886	1398
45°	2047	1428	722	920	1108	1573
55°	1575	732	817	879	941	1387
65°	760	475	637	774	792	768
75°	224	253	381	505	539	254
85°	32	108	216	294	299	40
90°	1	80	193	229	212	2
95°	0	75	134	118	112	0
105°	0	67	83	75	74	0
115°	0	55	79	71	67	1
125°	1	45	71	68	65	1
135°	1	32	56	62	60	1
145°	1	20	39	50	53	1
155°	2	12	24	32	38	1
165°	2	6	12	15	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°	2454.9	2454.9	2454.9	2454.9	2454.9
2.5°	2485.3	2449.4	2453.8	2446.2	2433.1
5°	2482.0	2444.0	2448.3	2435.3	2436.4
7.5°	2473.3	2434.2	2439.7	2437.5	2442.9
10°	2463.6	2422.3	2442.9	2461.4	2477.7
12.5°	2446.2	2409.2	2459.2	2513.5	2547.2
15°	2429.9	2397.3	2490.7	2583.1	2614.6
17.5°	2413.6	2392.9	2529.8	2610.3	2605.9
20°	2392.9	2390.7	2559.2	2532.0	2465.7
22.5°	2370.1	2391.8	2536.4	2337.5	2207.1
25°	2344.0	2389.7	2435.3	2061.5	1893.0
27.5°	2317.9	2379.9	2251.7	1759.4	1593.1
30°	2291.9	2353.8	2003.9	1483.4	1332.3
32.5°	2261.4	2297.3	1734.4	1238.8	1099.7
35°	2229.9	2194.1	1479.0	1018.2	885.7
37.5°	2197.3	2045.2	1249.7	824.8	740.0
40°	2158.2	1858.3	1038.9	707.4	730.3
42.5°	2109.3	1647.4	853.1	742.2	900.9
45°	2047.4	1427.9	721.6	920.4	1108.4
47.5°	1969.1	1217.1	689.0	1054.1	1112.8
50°	1874.6	1023.7	757.4	1010.6	1006.3
52.5°	1731.1	862.8	827.0	921.5	956.3
55°	1574.6	732.4	817.2	879.1	941.1
57.5°	1376.9	644.4	749.8	870.5	942.2
60°	1180.2	585.7	692.2	869.4	936.7
62.5°	962.8	532.5	662.9	848.7	888.9
65°	759.6	474.9	636.8	773.7	792.2
67.5°	582.5	416.2	591.2	690.1	727.0
70°	439.0	358.6	519.4	625.9	671.6
72.5°	316.2	304.3	445.5	569.4	617.2
75°	223.9	253.2	381.4	505.3	539.0
77.5°	154.3	206.5	327.1	434.7	461.8
80°	101.1	165.2	278.2	373.8	392.3
82.5°	60.9	132.6	241.2	327.1	336.9
85°	31.5	107.6	216.3	294.5	298.8
87.5°	9.8	90.2	202.1	279.3	284.7
90°	1.1	80.4	193.4	229.3	211.9
92.5°	0.0	76.1	167.4	156.5	140.2
95°	0.0	75.0	133.7	118.5	111.9
97.5°	0.0	72.8	109.8	98.9	95.6
100°	0.0	70.6	94.5	86.9	85.8
102.5°	0.0	69.5	85.8	79.3	78.2
105°	0.0	67.4	82.6	75.0	73.9
107.5°	0.0	64.1	80.4	72.8	70.6
110°	0.0	60.9	80.4	71.7	68.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	57.6	80.4	70.6	67.4
115°	0.0	55.4	79.3	70.6	67.4
117.5°	1.1	53.2	78.2	70.6	67.4
120°	0.0	51.1	76.1	70.6	66.3
122.5°	1.1	47.8	73.9	69.5	66.3
125°	1.1	44.6	70.6	68.5	65.2
127.5°	1.1	41.3	67.4	66.3	63.0
130°	1.1	38.0	64.1	65.2	61.9
132.5°	1.1	34.8	59.8	63.0	60.9
135°	1.1	31.5	56.5	61.9	59.8
137.5°	1.1	28.3	52.2	58.7	58.7
140°	1.1	25.0	47.8	56.5	57.6
142.5°	1.1	22.8	43.5	54.3	55.4
145°	1.1	19.6	39.1	50.0	53.2
147.5°	1.1	17.4	34.8	45.6	50.0
150°	1.1	15.2	30.4	41.3	45.6
152.5°	1.1	13.0	27.2	35.9	42.4
155°	2.2	12.0	23.9	31.5	38.0
157.5°	2.2	9.8	19.6	27.2	32.6
160°	2.2	8.7	17.4	22.8	29.3
162.5°	2.2	7.6	14.1	19.6	25.0
165°	2.2	6.5	12.0	15.2	20.6
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)