

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-LD5-52HL-SLC-UNV-L830-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-LD5-52HL-SLC-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

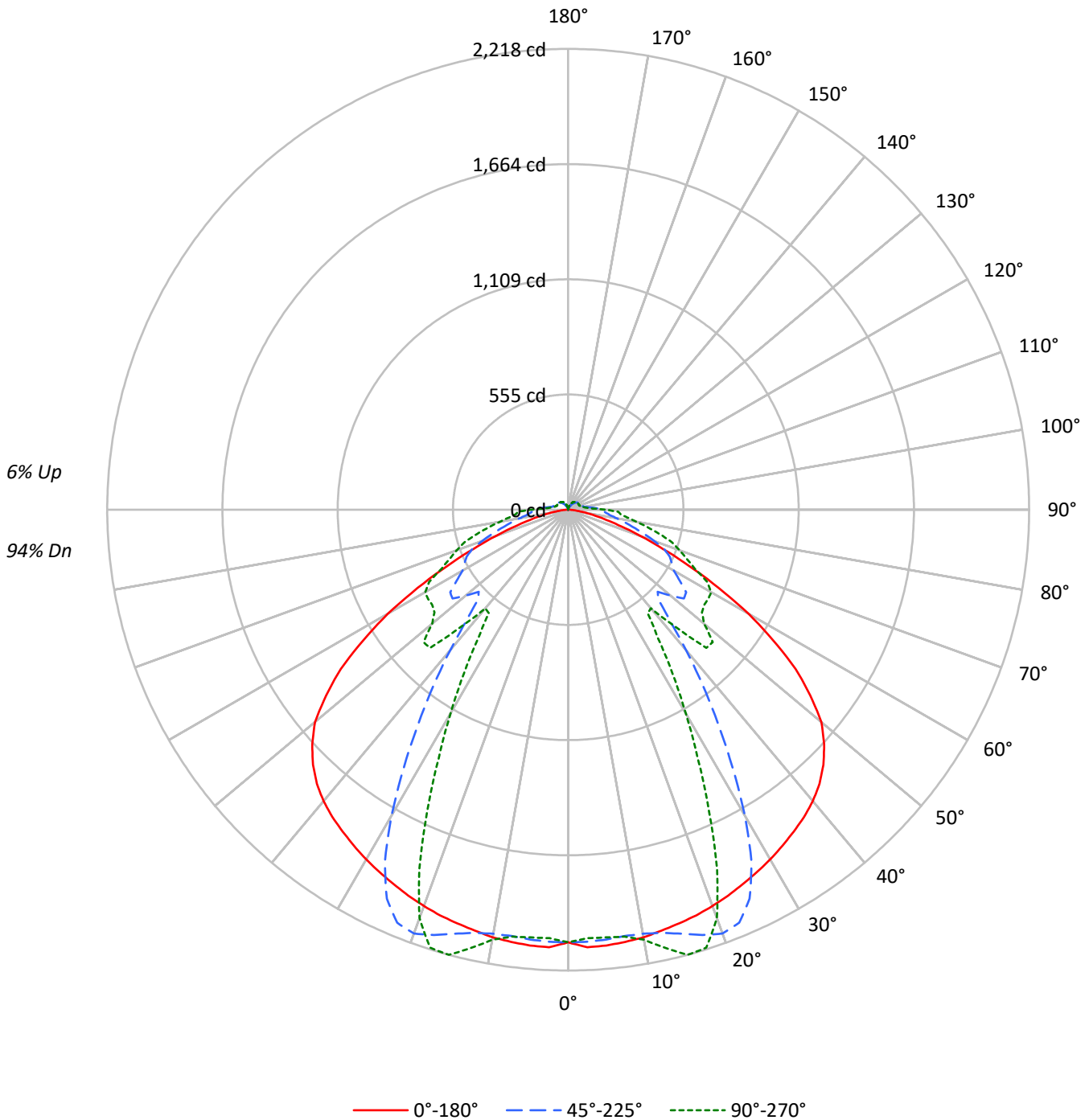
Lumens per Lamp: N/A
Luminaire Lumens: 5349.0 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 37
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°	16827	16827	16827
5°	17032	16433	16231
10°	17053	16183	16175
15°	17100	16411	16859
20°	17259	16900	15824
25°	17474	16241	12185
30°	17818	13603	8667
35°	18260	10303	5869
40°	18819	7489	4969
45°	19245	5433	7812
50°	19273	6016	7414
55°	18014	6923	7322
60°	15349	6335	7782
65°	11546	6390	7119
70°	8103	5816	6626
75°	5310	4872	5946
80°	3388	4175	4950
85°	1824	3967	4443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	3.7
10°-20°	598.3	11.2
20°-30°	869.1	16.2
30°-40°	830.4	15.5
40°-50°	759.6	14.2
50°-60°	701.3	13.1
60°-70°	557.1	10.4
70°-80°	343.8	6.4
80°-90°	187.2	3.5
90°-100°	94.6	1.8
100°-110°	59.5	1.1
110°-120°	50.4	0.9
120°-130°	41.1	0.8
130°-140°	29.5	0.6
140°-150°	18.2	0.3
150°-160°	8.6	0.2
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	1665.4	31.1
0°-40°	2495.8	46.7
0°-60°	3956.7	74.0
0°-90°	5044.8	94.3
90°-120°	204.5	3.8
90°-150°	293.3	5.5
90°-180°	304.0	5.7
0°-180°	5349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2105	2073	2077	2066	2067	200
15°	2061	2034	2113	2191	2218	583
25°	1988	2027	2066	1749	1606	919
35°	1892	1861	1255	864	751	1186
45°	1737	1211	612	781	940	1335
55°	1336	621	693	746	798	1176
65°	644	403	540	656	672	652
75°	190	215	324	429	457	215
85°	27	91	183	250	254	34
90°	1	68	164	194	180	1
95°	0	64	113	100	95	0
105°	0	57	70	64	63	0
115°	0	47	67	60	57	0
125°	1	38	60	58	55	1
135°	1	27	48	52	51	1
145°	1	17	33	42	45	1
155°	2	10	20	27	32	1
165°	2	6	10	13	18	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°	2082.3	2082.3	2082.3	2082.3	2082.3
2.5°	2108.1	2077.7	2081.4	2074.9	2063.9
5°	2105.4	2073.1	2076.8	2065.7	2066.6
7.5°	2098.0	2064.8	2069.4	2067.6	2072.2
10°	2089.7	2054.7	2072.2	2087.8	2101.7
12.5°	2074.9	2043.6	2086.0	2132.1	2160.7
15°	2061.1	2033.5	2112.7	2191.1	2217.8
17.5°	2047.3	2029.8	2145.9	2214.1	2210.4
20°	2029.8	2027.9	2170.8	2147.8	2091.5
22.5°	2010.4	2028.9	2151.4	1982.8	1872.1
25°	1988.3	2027.0	2065.7	1748.6	1605.8
27.5°	1966.2	2018.7	1909.9	1492.4	1351.3
30°	1944.0	1996.6	1699.8	1258.2	1130.1
32.5°	1918.2	1948.7	1471.2	1050.8	932.8
35°	1891.5	1861.1	1254.6	863.7	751.3
37.5°	1863.9	1734.8	1060.1	699.6	627.7
40°	1830.7	1576.3	881.2	600.1	619.4
42.5°	1789.2	1397.4	723.6	629.6	764.2
45°	1736.6	1211.2	612.1	780.8	940.2
47.5°	1670.3	1032.4	584.4	894.1	943.9
50°	1590.1	868.3	642.5	857.3	853.6
52.5°	1468.4	731.9	701.5	781.7	811.2
55°	1335.7	621.3	693.2	745.7	798.3
57.5°	1167.9	546.6	636.0	738.4	799.2
60°	1001.1	496.8	587.2	737.4	794.6
62.5°	816.7	451.7	562.3	719.9	754.0
65°	644.3	402.8	540.2	656.3	672.0
67.5°	494.1	353.0	501.5	585.3	616.7
70°	372.4	304.2	440.6	530.9	569.7
72.5°	268.2	258.1	377.9	483.0	523.6
75°	189.9	214.8	323.5	428.6	457.2
77.5°	130.9	175.1	277.5	368.7	391.8
80°	85.7	140.1	236.0	317.1	332.8
82.5°	51.6	112.5	204.6	277.5	285.8
85°	26.7	91.3	183.4	249.8	253.5
87.5°	8.3	76.5	171.5	236.9	241.5
90°	0.9	68.2	164.1	194.5	179.7
92.5°	0.0	64.5	142.0	132.7	118.9
95°	0.0	63.6	113.4	100.5	94.9
97.5°	0.0	61.8	93.1	83.9	81.1
100°	0.0	59.9	80.2	73.7	72.8
102.5°	0.0	59.0	72.8	67.3	66.4
105°	0.0	57.2	70.1	63.6	62.7
107.5°	0.0	54.4	68.2	61.8	59.9
110°	0.0	51.6	68.2	60.8	58.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	48.9	68.2	59.9	57.2
115°	0.0	47.0	67.3	59.9	57.2
117.5°	0.9	45.2	66.4	59.9	57.2
120°	0.0	43.3	64.5	59.9	56.2
122.5°	0.9	40.6	62.7	59.0	56.2
125°	0.9	37.8	59.9	58.1	55.3
127.5°	0.9	35.0	57.2	56.2	53.5
130°	0.9	32.3	54.4	55.3	52.5
132.5°	0.9	29.5	50.7	53.5	51.6
135°	0.9	26.7	47.9	52.5	50.7
137.5°	0.9	24.0	44.2	49.8	49.8
140°	0.9	21.2	40.6	47.9	48.9
142.5°	0.9	19.4	36.9	46.1	47.0
145°	0.9	16.6	33.2	42.4	45.2
147.5°	0.9	14.7	29.5	38.7	42.4
150°	0.9	12.9	25.8	35.0	38.7
152.5°	0.9	11.1	23.0	30.4	35.9
155°	1.8	10.1	20.3	26.7	32.3
157.5°	1.8	8.3	16.6	23.0	27.7
160°	1.8	7.4	14.7	19.4	24.9
162.5°	1.8	6.5	12.0	16.6	21.2
165°	1.8	5.5	10.1	12.9	17.5
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)