

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-LD5-64HL-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-LD5-64HL-SLC-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

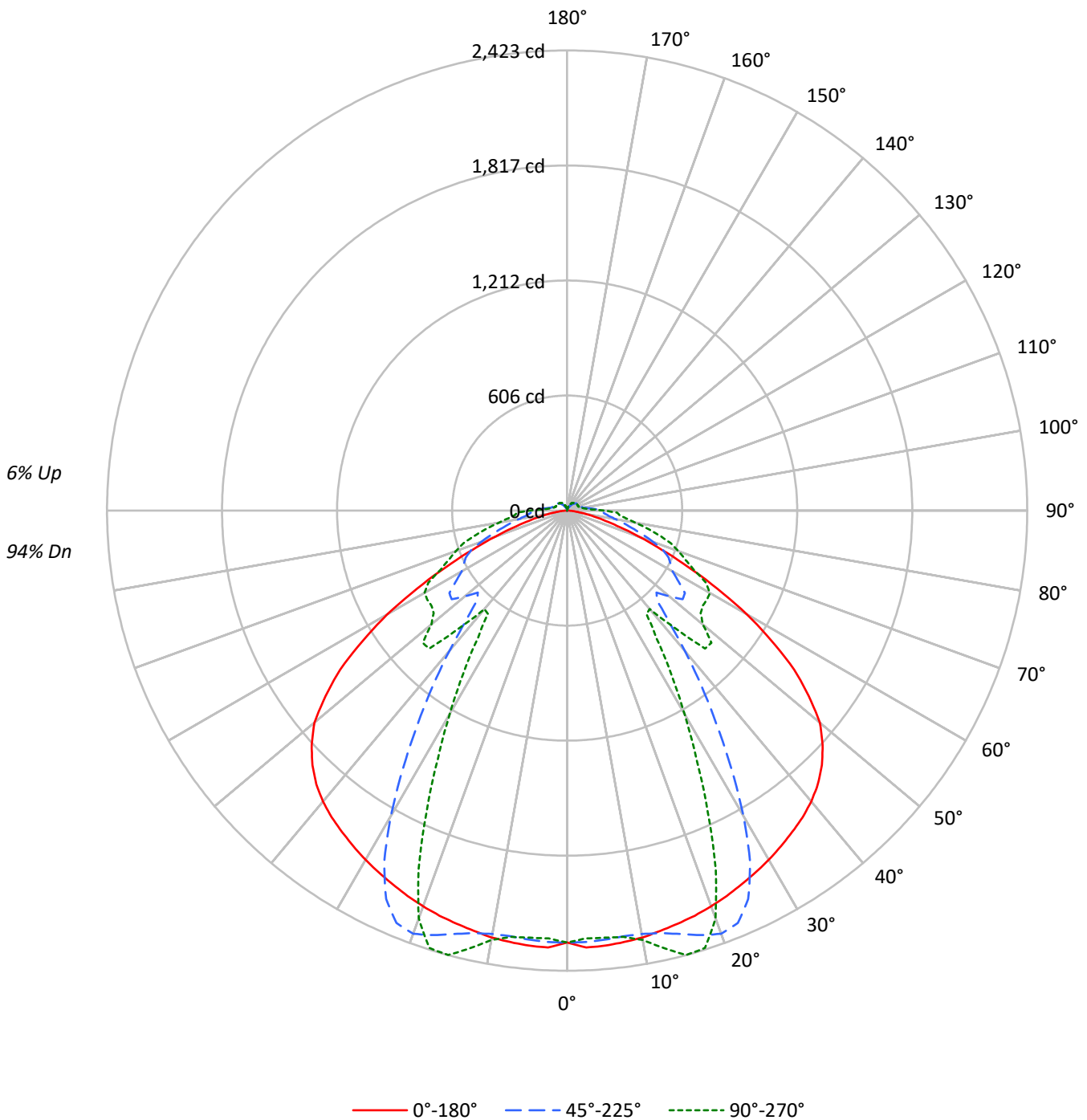
Lumens per Lamp: N/A
Luminaire Lumens: 5843.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 48
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°	18381	18381	18381
5°	18605	17951	17730
10°	18628	17677	17669
15°	18680	17927	18415
20°	18853	18460	17286
25°	19087	17741	13310
30°	19464	14859	9467
35°	19947	11253	6410
40°	20556	8181	5428
45°	21023	5935	8534
50°	21052	6571	8099
55°	19677	7563	7998
60°	16766	6920	8501
65°	12612	6980	7776
70°	8852	6353	7238
75°	5799	5323	6494
80°	3700	4561	5406
85°	1995	4335	4853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	3.7
10°-20°	653.5	11.2
20°-30°	949.3	16.2
30°-40°	907.0	15.5
40°-50°	829.7	14.2
50°-60°	766.1	13.1
60°-70°	608.5	10.4
70°-80°	375.6	6.4
80°-90°	204.5	3.5
90°-100°	103.4	1.8
100°-110°	64.9	1.1
110°-120°	55.0	0.9
120°-130°	44.9	0.8
130°-140°	32.2	0.6
140°-150°	19.9	0.3
150°-160°	9.4	0.2
160°-170°	2.4	0.0
170°-180°	0.0	0.0
0°-30°	1819.2	31.1
0°-40°	2726.3	46.7
0°-60°	4322.1	74.0
0°-90°	5510.7	94.3
90°-120°	223.3	3.8
90°-150°	320.4	5.5
90°-180°	332.0	5.7
0°-180°	5843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2275	2275	2275	2275	2275	
5°	2300	2265	2269	2256	2258	219
15°	2252	2221	2308	2393	2423	637
25°	2172	2214	2256	1910	1754	1004
35°	2066	2033	1370	944	821	1296
45°	1897	1323	669	853	1027	1458
55°	1459	679	757	815	872	1285
65°	704	440	590	717	734	712
75°	207	235	353	468	499	235
85°	29	100	200	273	277	37
90°	1	74	179	212	196	2
95°	0	70	124	110	104	0
105°	0	62	76	70	68	0
115°	0	51	74	65	62	0
125°	1	41	65	63	60	1
135°	1	29	52	57	55	1
145°	1	18	36	46	49	1
155°	2	11	22	29	35	1
165°	2	6	11	14	19	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°	2274.6	2274.6	2274.6	2274.6	2274.6
2.5°	2302.8	2269.6	2273.6	2266.6	2254.5
5°	2299.8	2264.6	2268.6	2256.5	2257.5
7.5°	2291.7	2255.5	2260.5	2258.5	2263.5
10°	2282.7	2244.4	2263.5	2280.7	2295.8
12.5°	2266.6	2232.3	2278.7	2329.0	2360.2
15°	2251.5	2221.3	2307.9	2393.4	2422.6
17.5°	2236.4	2217.2	2344.1	2418.6	2414.6
20°	2217.2	2215.2	2371.3	2346.1	2284.7
22.5°	2196.1	2216.2	2350.1	2165.9	2045.0
25°	2171.9	2214.2	2256.5	1910.1	1754.0
27.5°	2147.8	2205.1	2086.3	1630.2	1476.1
30°	2123.6	2181.0	1856.8	1374.4	1234.5
32.5°	2095.4	2128.6	1607.0	1147.9	1019.0
35°	2066.2	2033.0	1370.4	943.5	820.6
37.5°	2036.0	1895.0	1158.0	764.2	685.7
40°	1999.7	1721.8	962.6	655.5	676.6
42.5°	1954.4	1526.5	790.4	687.7	834.7
45°	1897.0	1323.1	668.6	852.9	1027.1
47.5°	1824.5	1127.7	638.4	976.7	1031.1
50°	1736.9	948.5	701.8	936.4	932.4
52.5°	1604.0	799.5	766.3	853.9	886.1
55°	1459.0	678.7	757.2	814.6	872.0
57.5°	1275.8	597.1	694.8	806.5	873.0
60°	1093.5	542.7	641.4	805.5	868.0
62.5°	892.1	493.4	614.2	786.4	823.7
65°	703.8	440.0	590.1	716.9	734.0
67.5°	539.7	385.6	547.8	639.4	673.6
70°	406.8	332.3	481.3	580.0	622.3
72.5°	293.0	281.9	412.8	527.6	571.9
75°	207.4	234.6	353.4	468.2	499.4
77.5°	143.0	191.3	303.1	402.8	427.9
80°	93.6	153.1	257.8	346.4	363.5
82.5°	56.4	122.8	223.5	303.1	312.1
85°	29.2	99.7	200.4	272.9	276.9
87.5°	9.1	83.6	187.3	258.8	263.8
90°	1.0	74.5	179.2	212.5	196.3
92.5°	0.0	70.5	155.1	145.0	129.9
95°	0.0	69.5	123.9	109.8	103.7
97.5°	0.0	67.5	101.7	91.6	88.6
100°	0.0	65.4	87.6	80.6	79.5
102.5°	0.0	64.4	79.5	73.5	72.5
105°	0.0	62.4	76.5	69.5	68.5
107.5°	0.0	59.4	74.5	67.5	65.4
110°	0.0	56.4	74.5	66.5	63.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	53.4	74.5	65.4	62.4
115°	0.0	51.4	73.5	65.4	62.4
117.5°	1.0	49.3	72.5	65.4	62.4
120°	0.0	47.3	70.5	65.4	61.4
122.5°	1.0	44.3	68.5	64.4	61.4
125°	1.0	41.3	65.4	63.4	60.4
127.5°	1.0	38.3	62.4	61.4	58.4
130°	1.0	35.2	59.4	60.4	57.4
132.5°	1.0	32.2	55.4	58.4	56.4
135°	1.0	29.2	52.4	57.4	55.4
137.5°	1.0	26.2	48.3	54.4	54.4
140°	1.0	23.2	44.3	52.4	53.4
142.5°	1.0	21.1	40.3	50.3	51.4
145°	1.0	18.1	36.2	46.3	49.3
147.5°	1.0	16.1	32.2	42.3	46.3
150°	1.0	14.1	28.2	38.3	42.3
152.5°	1.0	12.1	25.2	33.2	39.3
155°	2.0	11.1	22.2	29.2	35.2
157.5°	2.0	9.1	18.1	25.2	30.2
160°	2.0	8.1	16.1	21.1	27.2
162.5°	2.0	7.0	13.1	18.1	23.2
165°	2.0	6.0	11.1	14.1	19.1
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)