

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-L935-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-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

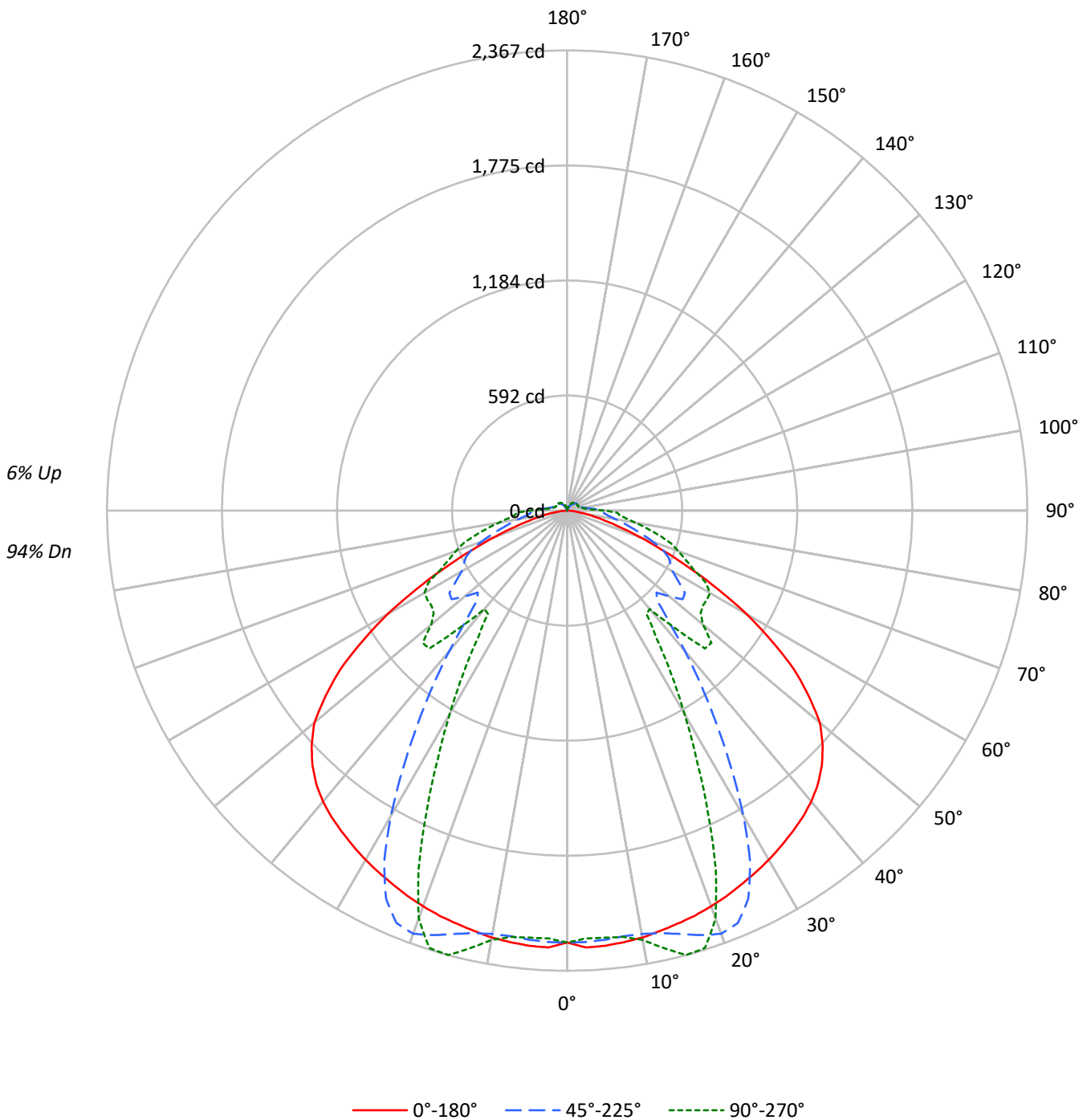
Lumens per Lamp: N/A  
Luminaire Lumens: 5708.0 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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	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°	17957	17957	17957
5°	18175	17536	17320
10°	18198	17269	17260
15°	18248	17512	17991
20°	18417	18034	16886
25°	18646	17332	13002
30°	19014	14516	9249
35°	19486	10994	6263
40°	20081	7992	5303
45°	20537	5797	8337
50°	20566	6420	7912
55°	19223	7388	7813
60°	16378	6760	8304
65°	12322	6818	7597
70°	8647	6207	7071
75°	5665	5201	6345
80°	3617	4454	5282
85°	1947	4233	4741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.4	3.7
10°-20°	638.4	11.2
20°-30°	927.4	16.2
30°-40°	886.1	15.5
40°-50°	810.5	14.2
50°-60°	748.4	13.1
60°-70°	594.5	10.4
70°-80°	366.9	6.4
80°-90°	199.8	3.5
90°-100°	101.0	1.8
100°-110°	63.5	1.1
110°-120°	53.7	0.9
120°-130°	43.9	0.8
130°-140°	31.5	0.6
140°-150°	19.4	0.3
150°-160°	9.2	0.2
160°-170°	2.4	0.0
170°-180°	0.0	0.0
0°-30°	1777.2	31.1
0°-40°	2663.3	46.7
0°-60°	4222.2	74.0
0°-90°	5383.4	94.3
90°-120°	218.2	3.8
90°-150°	313.0	5.5
90°-180°	325.0	5.7
0°-180°	5708.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2222	2222	2222	2222	2222	
5°	2247	2212	2216	2204	2205	214
15°	2199	2170	2254	2338	2367	622
25°	2122	2163	2204	1866	1714	981
35°	2018	1986	1339	922	802	1266
45°	1853	1292	653	833	1003	1424
55°	1425	663	740	796	852	1255
65°	688	430	576	700	717	695
75°	203	229	345	457	488	230
85°	28	97	196	267	270	36
90°	1	73	175	208	192	1
95°	0	68	121	107	101	0
105°	0	61	75	68	67	0
115°	0	50	72	64	61	0
125°	1	40	64	62	59	1
135°	1	28	51	56	54	1
145°	1	18	35	45	48	1
155°	2	11	22	28	34	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°	2222.1	2222.1	2222.1	2222.1	2222.1
2.5°	2249.6	2217.2	2221.1	2214.2	2202.4
5°	2246.7	2212.2	2216.2	2204.4	2205.3
7.5°	2238.8	2203.4	2208.3	2206.3	2211.2
10°	2229.9	2192.6	2211.2	2228.0	2242.7
12.5°	2214.2	2180.8	2226.0	2275.2	2305.7
15°	2199.4	2169.9	2254.5	2338.1	2366.7
17.5°	2184.7	2166.0	2289.9	2362.7	2358.8
20°	2166.0	2164.0	2316.5	2291.9	2231.9
22.5°	2145.3	2165.0	2295.8	2115.8	1997.8
25°	2121.7	2163.1	2204.4	1866.0	1713.5
27.5°	2098.1	2154.2	2038.1	1592.5	1442.0
30°	2074.5	2130.6	1813.9	1342.7	1206.0
32.5°	2047.0	2079.4	1569.9	1121.4	995.5
35°	2018.5	1986.0	1338.8	921.7	801.7
37.5°	1988.9	1851.2	1131.2	746.6	669.9
40°	1953.5	1682.0	940.4	640.4	661.0
42.5°	1909.3	1491.2	772.2	671.8	815.4
45°	1853.2	1292.5	653.1	833.2	1003.3
47.5°	1782.4	1101.7	623.6	954.1	1007.3
50°	1696.8	926.6	685.6	914.8	910.9
52.5°	1567.0	781.0	748.6	834.1	865.6
55°	1425.3	663.0	739.7	795.8	851.8
57.5°	1246.3	583.3	678.7	787.9	852.8
60°	1068.2	530.2	626.6	786.9	847.9
62.5°	871.5	482.0	600.0	768.2	804.6
65°	687.6	429.9	576.4	700.4	717.1
67.5°	527.2	376.7	535.1	624.6	658.1
70°	397.4	324.6	470.2	566.6	607.9
72.5°	286.2	275.4	403.3	515.4	558.7
75°	202.6	229.2	345.3	457.4	487.9
77.5°	139.7	186.9	296.1	393.5	418.1
80°	91.5	149.5	251.8	338.4	355.1
82.5°	55.1	120.0	218.4	296.1	304.9
85°	28.5	97.4	195.7	266.6	270.5
87.5°	8.9	81.6	183.0	252.8	257.7
90°	1.0	72.8	175.1	207.6	191.8
92.5°	0.0	68.9	151.5	141.6	126.9
95°	0.0	67.9	121.0	107.2	101.3
97.5°	0.0	65.9	99.3	89.5	86.6
100°	0.0	63.9	85.6	78.7	77.7
102.5°	0.0	63.0	77.7	71.8	70.8
105°	0.0	61.0	74.8	67.9	66.9
107.5°	0.0	58.0	72.8	65.9	63.9
110°	0.0	55.1	72.8	64.9	62.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	52.1	72.8	63.9	61.0
115°	0.0	50.2	71.8	63.9	61.0
117.5°	1.0	48.2	70.8	63.9	61.0
120°	0.0	46.2	68.9	63.9	60.0
122.5°	1.0	43.3	66.9	63.0	60.0
125°	1.0	40.3	63.9	62.0	59.0
127.5°	1.0	37.4	61.0	60.0	57.1
130°	1.0	34.4	58.0	59.0	56.1
132.5°	1.0	31.5	54.1	57.1	55.1
135°	1.0	28.5	51.1	56.1	54.1
137.5°	1.0	25.6	47.2	53.1	53.1
140°	1.0	22.6	43.3	51.1	52.1
142.5°	1.0	20.7	39.3	49.2	50.2
145°	1.0	17.7	35.4	45.2	48.2
147.5°	1.0	15.7	31.5	41.3	45.2
150°	1.0	13.8	27.5	37.4	41.3
152.5°	1.0	11.8	24.6	32.5	38.4
155°	2.0	10.8	21.6	28.5	34.4
157.5°	2.0	8.9	17.7	24.6	29.5
160°	2.0	7.9	15.7	20.7	26.6
162.5°	2.0	6.9	12.8	17.7	22.6
165°	2.0	5.9	10.8	13.8	18.7
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)