

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-LD5-66SL-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-LD5-66SL-SLC-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

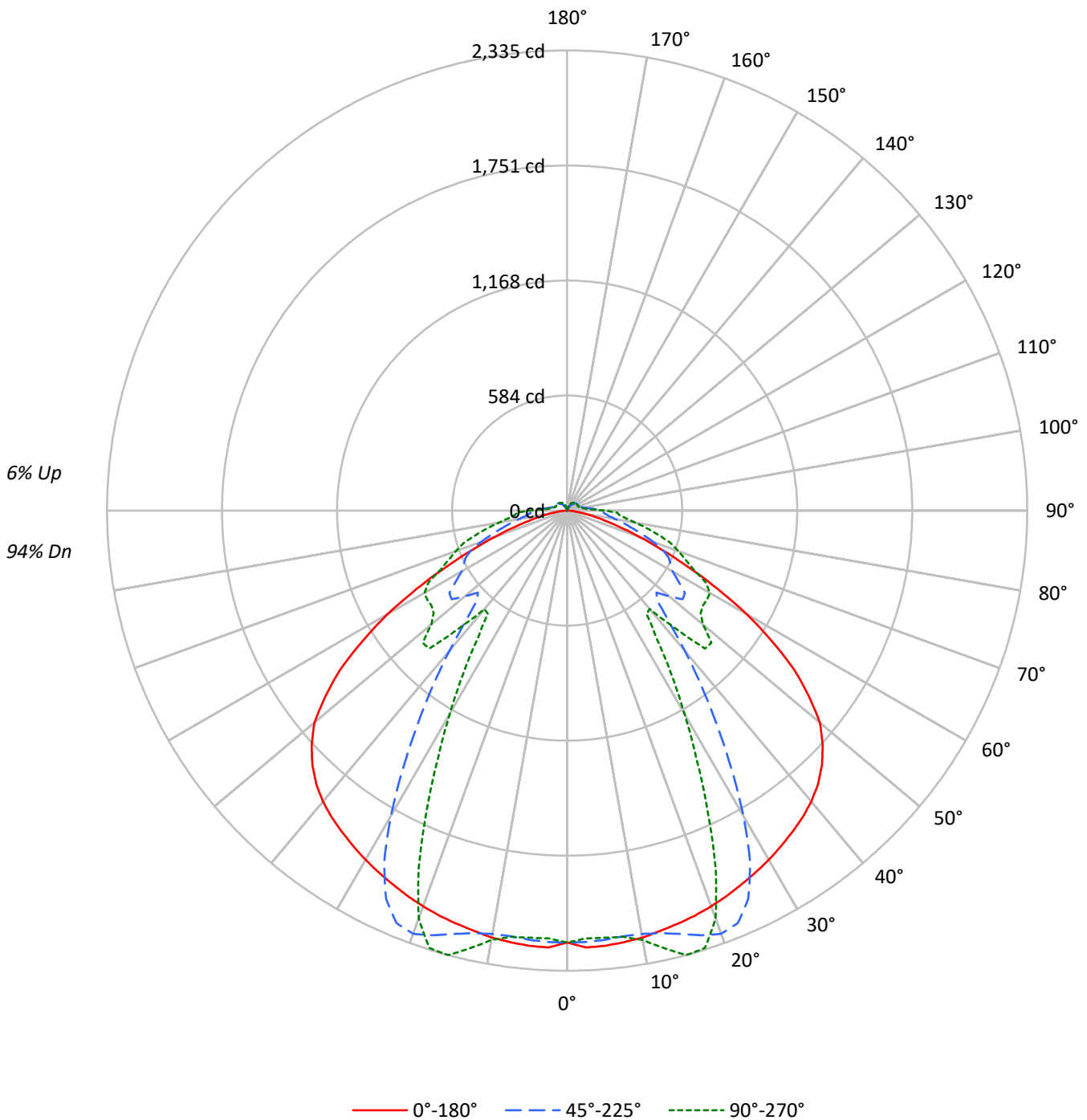
Lumens per Lamp: N/A
Luminaire Lumens: 5631.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 55
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°	17714	17714	17714
5°	17930	17300	17087
10°	17953	17036	17028
15°	18002	17276	17747
20°	18169	17791	16659
25°	18395	17097	12827
30°	18758	14320	9124
35°	19223	10845	6178
40°	19811	7884	5231
45°	20260	5719	8224
50°	20288	6333	7805
55°	18964	7288	7708
60°	16157	6669	8193
65°	12155	6725	7494
70°	8530	6122	6975
75°	5590	5130	6259
80°	3566	4394	5210
85°	1920	4177	4678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	3.7
10°-20°	629.8	11.2
20°-30°	914.9	16.2
30°-40°	874.1	15.5
40°-50°	799.6	14.2
50°-60°	738.3	13.1
60°-70°	586.4	10.4
70°-80°	362.0	6.4
80°-90°	197.1	3.5
90°-100°	99.6	1.8
100°-110°	62.6	1.1
110°-120°	53.0	0.9
120°-130°	43.3	0.8
130°-140°	31.1	0.6
140°-150°	19.2	0.3
150°-160°	9.1	0.2
160°-170°	2.4	0.0
170°-180°	0.0	0.0
0°-30°	1753.2	31.1
0°-40°	2627.4	46.7
0°-60°	4165.3	74.0
0°-90°	5310.8	94.3
90°-120°	215.2	3.8
90°-150°	308.8	5.5
90°-180°	320.0	5.7
0°-180°	5631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2192	2192	2192	2192	2192	
5°	2216	2182	2186	2175	2176	211
15°	2170	2141	2224	2307	2335	614
25°	2093	2134	2175	1841	1690	967
35°	1991	1959	1321	909	791	1249
45°	1828	1275	644	822	990	1405
55°	1406	654	730	785	840	1238
65°	678	424	569	691	707	686
75°	200	226	341	451	481	227
85°	28	96	193	263	267	36
90°	1	72	173	205	189	1
95°	0	67	119	106	100	0
105°	0	60	74	67	66	0
115°	0	50	71	63	60	0
125°	1	40	63	61	58	1
135°	1	28	50	55	53	1
145°	1	18	35	45	48	1
155°	2	11	21	28	34	1
165°	2	6	11	14	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°	2192.1	2192.1	2192.1	2192.1	2192.1
2.5°	2219.3	2187.2	2191.1	2184.3	2172.7
5°	2216.4	2182.4	2186.3	2174.6	2175.6
7.5°	2208.6	2173.7	2178.5	2176.6	2181.4
10°	2199.9	2163.0	2181.4	2197.9	2212.5
12.5°	2184.3	2151.3	2196.0	2244.5	2274.6
15°	2169.8	2140.7	2224.1	2306.6	2334.7
17.5°	2155.2	2136.8	2259.1	2330.9	2327.0
20°	2136.8	2134.8	2285.3	2261.0	2201.8
22.5°	2116.4	2135.8	2264.9	2087.3	1970.8
25°	2093.1	2133.9	2174.6	1840.8	1690.4
27.5°	2069.8	2125.1	2010.6	1571.0	1422.6
30°	2046.5	2101.8	1789.4	1324.6	1189.7
32.5°	2019.4	2051.4	1548.7	1106.2	982.0
35°	1991.2	1959.2	1320.7	909.2	790.9
37.5°	1962.1	1826.3	1115.9	736.5	660.8
40°	1927.2	1659.4	927.7	631.7	652.1
42.5°	1883.5	1471.1	761.8	662.8	804.4
45°	1828.2	1275.1	644.3	821.9	989.8
47.5°	1758.3	1086.8	615.2	941.3	993.7
50°	1673.9	914.1	676.4	902.5	898.6
52.5°	1545.8	770.5	738.5	822.9	853.9
55°	1406.1	654.0	729.7	785.0	840.4
57.5°	1229.5	575.4	669.6	777.3	841.3
60°	1053.8	523.0	618.1	776.3	836.5
62.5°	859.8	475.5	591.9	757.9	793.8
65°	678.3	424.1	568.6	690.9	707.4
67.5°	520.1	371.7	527.9	616.2	649.2
70°	392.0	320.2	463.8	558.9	599.7
72.5°	282.4	271.7	397.9	508.5	551.2
75°	199.9	226.1	340.6	451.2	481.3
77.5°	137.8	184.4	292.1	388.2	412.4
80°	90.2	147.5	248.4	333.8	350.3
82.5°	54.3	118.4	215.4	292.1	300.8
85°	28.1	96.1	193.1	263.0	266.9
87.5°	8.7	80.5	180.5	249.4	254.2
90°	1.0	71.8	172.7	204.8	189.2
92.5°	0.0	67.9	149.4	139.7	125.2
95°	0.0	67.0	119.4	105.8	99.9
97.5°	0.0	65.0	98.0	88.3	85.4
100°	0.0	63.1	84.4	77.6	76.7
102.5°	0.0	62.1	76.7	70.8	69.9
105°	0.0	60.2	73.7	67.0	66.0
107.5°	0.0	57.3	71.8	65.0	63.1
110°	0.0	54.3	71.8	64.0	61.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	51.4	71.8	63.1	60.2
115°	0.0	49.5	70.8	63.1	60.2
117.5°	1.0	47.5	69.9	63.1	60.2
120°	0.0	45.6	67.9	63.1	59.2
122.5°	1.0	42.7	66.0	62.1	59.2
125°	1.0	39.8	63.1	61.1	58.2
127.5°	1.0	36.9	60.2	59.2	56.3
130°	1.0	34.0	57.3	58.2	55.3
132.5°	1.0	31.1	53.4	56.3	54.3
135°	1.0	28.1	50.5	55.3	53.4
137.5°	1.0	25.2	46.6	52.4	52.4
140°	1.0	22.3	42.7	50.5	51.4
142.5°	1.0	20.4	38.8	48.5	49.5
145°	1.0	17.5	34.9	44.6	47.5
147.5°	1.0	15.5	31.1	40.8	44.6
150°	1.0	13.6	27.2	36.9	40.8
152.5°	1.0	11.6	24.3	32.0	37.8
155°	1.9	10.7	21.3	28.1	34.0
157.5°	1.9	8.7	17.5	24.3	29.1
160°	1.9	7.8	15.5	20.4	26.2
162.5°	1.9	6.8	12.6	17.5	22.3
165°	1.9	5.8	10.7	13.6	18.4
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)