

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-LD5-56SL-SLC-UNV-L850-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-LD5-56SL-SLC-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

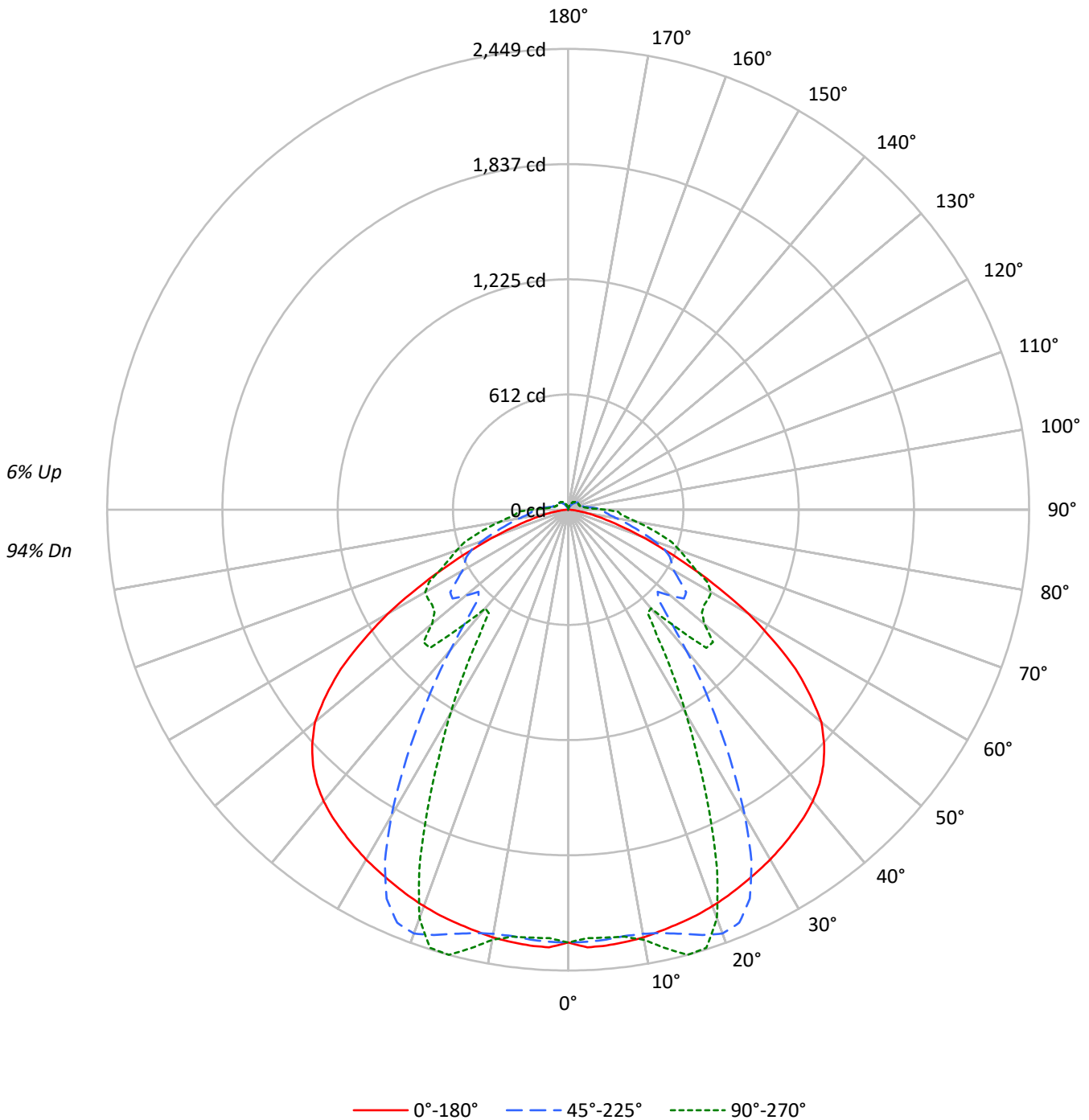
Lumens per Lamp: N/A
Luminaire Lumens: 5907.0 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 46
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°	18582	18582	18582
5°	18809	18147	17924
10°	18832	17871	17862
15°	18884	18123	18618
20°	19059	18663	17475
25°	19297	17935	13456
30°	19677	15022	9571
35°	20165	11377	6481
40°	20781	8271	5488
45°	21253	5999	8627
50°	21283	6643	8187
55°	19893	7646	8085
60°	16950	6996	8594
65°	12750	7055	7861
70°	8947	6423	7317
75°	5864	5381	6566
80°	3744	4610	5466
85°	2015	4382	4905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.8	3.7
10°-20°	660.7	11.2
20°-30°	959.7	16.2
30°-40°	917.0	15.5
40°-50°	838.8	14.2
50°-60°	774.5	13.1
60°-70°	615.2	10.4
70°-80°	379.7	6.4
80°-90°	206.8	3.5
90°-100°	104.5	1.8
100°-110°	65.7	1.1
110°-120°	55.6	0.9
120°-130°	45.4	0.8
130°-140°	32.6	0.6
140°-150°	20.1	0.3
150°-160°	9.5	0.2
160°-170°	2.5	0.0
170°-180°	0.0	0.0
0°-30°	1839.2	31.1
0°-40°	2756.2	46.7
0°-60°	4369.4	74.0
0°-90°	5571.1	94.3
90°-120°	225.8	3.8
90°-150°	323.9	5.5
90°-180°	336.0	5.7
0°-180°	5907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2300	2300	2300	2300	2300	
5°	2325	2289	2293	2281	2282	221
15°	2276	2246	2333	2420	2449	644
25°	2196	2238	2281	1931	1773	1015
35°	2089	2055	1385	954	830	1310
45°	1918	1338	676	862	1038	1474
55°	1475	686	766	824	882	1299
65°	712	445	596	725	742	720
75°	210	237	357	473	505	238
85°	30	101	203	276	280	38
90°	1	75	181	215	198	2
95°	0	70	125	111	105	0
105°	0	63	77	70	69	0
115°	0	52	74	66	63	0
125°	1	42	66	64	61	1
135°	1	30	53	58	56	1
145°	1	18	37	47	50	1
155°	2	11	22	30	36	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°	2299.5	2299.5	2299.5	2299.5	2299.5
2.5°	2328.0	2294.4	2298.5	2291.4	2279.2
5°	2325.0	2289.4	2293.4	2281.2	2282.2
7.5°	2316.8	2280.2	2285.3	2283.3	2288.3
10°	2307.7	2269.0	2288.3	2305.6	2320.9
12.5°	2291.4	2256.8	2303.6	2354.5	2386.1
15°	2276.1	2245.6	2333.1	2419.7	2449.2
17.5°	2260.9	2241.5	2369.8	2445.1	2441.0
20°	2241.5	2239.5	2397.3	2371.8	2309.7
22.5°	2220.1	2240.5	2375.9	2189.6	2067.4
25°	2195.7	2238.5	2281.2	1931.0	1773.3
27.5°	2171.3	2229.3	2109.2	1648.1	1492.3
30°	2146.8	2204.9	1877.1	1389.5	1248.0
32.5°	2118.3	2151.9	1624.6	1160.5	1030.2
35°	2088.8	2055.2	1385.4	953.8	829.6
37.5°	2058.3	1915.8	1170.6	772.6	693.2
40°	2021.6	1740.7	973.2	662.7	684.1
42.5°	1975.8	1543.2	799.1	695.3	843.9
45°	1917.8	1337.6	675.9	862.2	1038.3
47.5°	1844.5	1140.1	645.4	987.4	1042.4
50°	1756.0	958.9	709.5	946.7	942.6
52.5°	1621.6	808.2	774.7	863.2	895.8
55°	1475.0	686.1	765.5	823.5	881.5
57.5°	1289.7	603.6	702.4	815.4	882.6
60°	1105.5	548.7	648.4	814.4	877.5
62.5°	901.9	498.8	620.9	795.0	832.7
65°	711.5	444.8	596.5	724.8	742.1
67.5°	545.6	389.9	553.8	646.4	681.0
70°	411.2	335.9	486.6	586.3	629.1
72.5°	296.2	285.0	417.4	533.4	578.2
75°	209.7	237.2	357.3	473.3	504.9
77.5°	144.5	193.4	306.4	407.2	432.6
80°	94.7	154.7	260.6	350.2	367.5
82.5°	57.0	124.2	226.0	306.4	315.6
85°	29.5	100.8	202.6	275.9	279.9
87.5°	9.2	84.5	189.3	261.6	266.7
90°	1.0	75.3	181.2	214.8	198.5
92.5°	0.0	71.3	156.8	146.6	131.3
95°	0.0	70.2	125.2	111.0	104.8
97.5°	0.0	68.2	102.8	92.6	89.6
100°	0.0	66.2	88.6	81.4	80.4
102.5°	0.0	65.1	80.4	74.3	73.3
105°	0.0	63.1	77.4	70.2	69.2
107.5°	0.0	60.1	75.3	68.2	66.2
110°	0.0	57.0	75.3	67.2	64.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	54.0	75.3	66.2	63.1
115°	0.0	51.9	74.3	66.2	63.1
117.5°	1.0	49.9	73.3	66.2	63.1
120°	0.0	47.8	71.3	66.2	62.1
122.5°	1.0	44.8	69.2	65.1	62.1
125°	1.0	41.7	66.2	64.1	61.1
127.5°	1.0	38.7	63.1	62.1	59.0
130°	1.0	35.6	60.1	61.1	58.0
132.5°	1.0	32.6	56.0	59.0	57.0
135°	1.0	29.5	52.9	58.0	56.0
137.5°	1.0	26.5	48.9	55.0	55.0
140°	1.0	23.4	44.8	52.9	54.0
142.5°	1.0	21.4	40.7	50.9	51.9
145°	1.0	18.3	36.6	46.8	49.9
147.5°	1.0	16.3	32.6	42.8	46.8
150°	1.0	14.3	28.5	38.7	42.8
152.5°	1.0	12.2	25.4	33.6	39.7
155°	2.0	11.2	22.4	29.5	35.6
157.5°	2.0	9.2	18.3	25.4	30.5
160°	2.0	8.1	16.3	21.4	27.5
162.5°	2.0	7.1	13.2	18.3	23.4
165°	2.0	6.1	11.2	14.3	19.3
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)