

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-SLN-UNV-L950-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-56SL-SLN-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

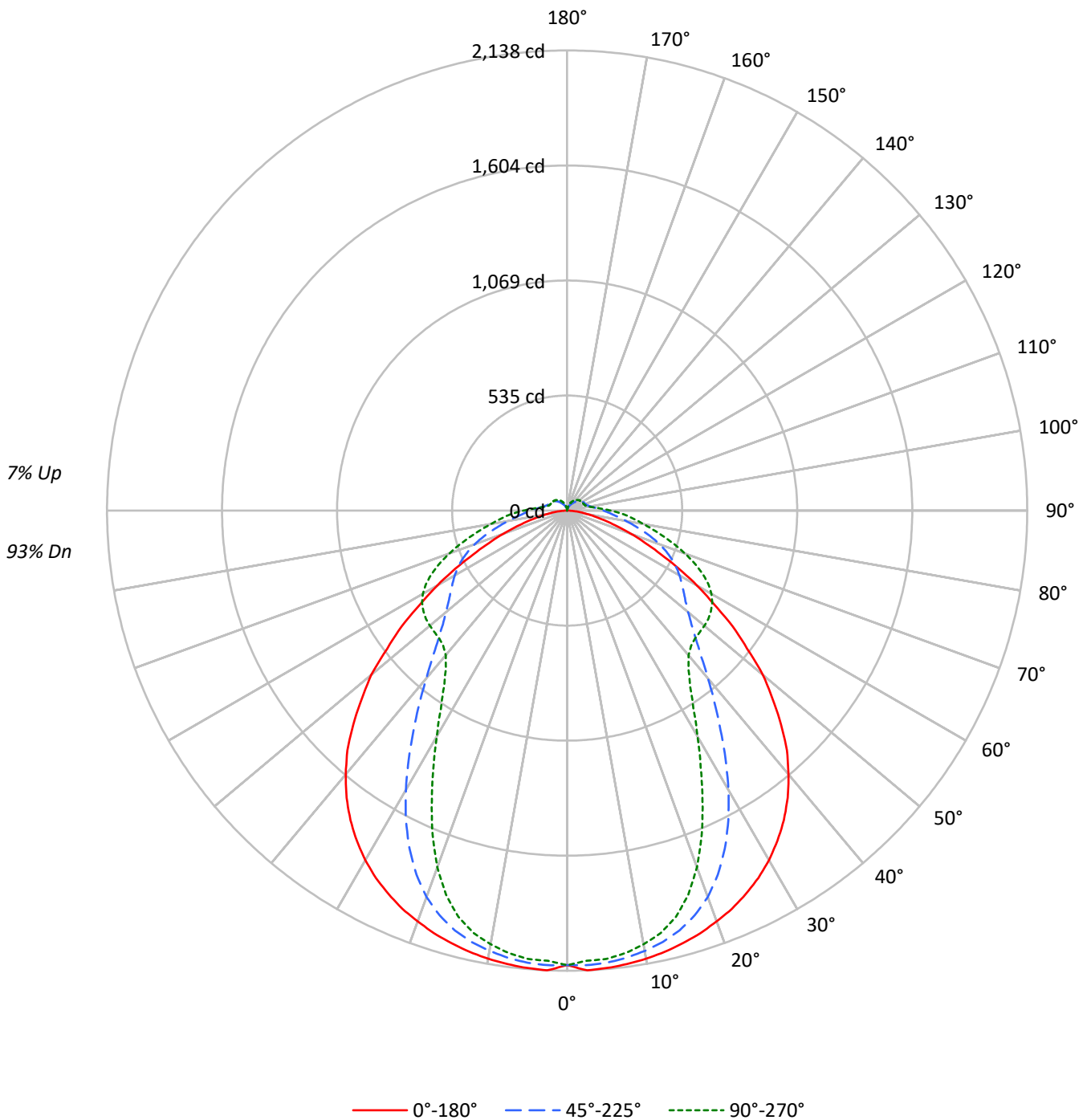
Lumens per Lamp: N/A
Luminaire Lumens: 5310.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17063	17063	17063
5°	17260	16686	16425
10°	17253	16225	15749
15°	17259	15681	14850
20°	17267	14873	13337
25°	17274	13628	11294
30°	17191	11992	9290
35°	16946	10203	7784
40°	16450	8641	7038
45°	15579	7510	6984
50°	14392	6865	7229
55°	12674	6599	7482
60°	10693	6505	7586
65°	8600	6360	7349
70°	6909	6032	6778
75°	5209	5460	6015
80°	3846	4902	5350
85°	2569	4625	4921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.8	3.8
10°-20°	564.6	10.6
20°-30°	789.3	14.9
30°-40°	818.7	15.4
40°-50°	756.3	14.2
50°-60°	675.3	12.7
60°-70°	547.3	10.3
70°-80°	364.0	6.9
80°-90°	208.4	3.9
90°-100°	115.3	2.2
100°-110°	78.1	1.5
110°-120°	65.0	1.2
120°-130°	52.9	1.0
130°-140°	38.1	0.7
140°-150°	23.0	0.4
150°-160°	11.1	0.2
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-30°	1553.7	29.3
0°-40°	2372.4	44.7
0°-60°	3804.0	71.6
0°-90°	4923.7	92.7
90°-120°	258.4	4.9
90°-150°	372.4	7.0
90°-180°	386.0	7.3
0°-180°	5310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2134	2098	2109	2094	2091	203
15°	2080	2036	2019	1973	1954	588
25°	1966	1878	1733	1552	1488	906
35°	1755	1563	1242	1043	996	1095
45°	1406	1114	846	816	840	1081
55°	940	710	661	768	816	836
65°	480	430	538	659	694	485
75°	186	233	362	444	462	204
85°	38	108	214	274	281	43
90°	2	76	169	204	202	3
95°	2	64	134	143	139	1
105°	1	56	96	94	89	1
115°	1	50	85	84	82	1
125°	1	43	75	79	77	1
135°	2	32	60	70	70	1
145°	2	20	41	54	58	1
155°	2	13	26	34	41	1
165°	2	7	13	16	22	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°	2111.5	2111.5	2111.5	2111.5	2111.5
2.5°	2138.1	2103.2	2114.2	2105.0	2093.1
5°	2133.5	2097.7	2108.7	2094.0	2091.3
7.5°	2125.2	2089.4	2095.9	2078.4	2073.8
10°	2114.2	2076.6	2077.5	2052.7	2046.3
12.5°	2099.5	2058.2	2052.7	2018.8	2009.6
15°	2080.3	2036.2	2018.8	1972.9	1953.6
17.5°	2059.2	2007.8	1972.0	1901.3	1871.0
20°	2030.7	1972.9	1910.5	1803.1	1762.8
22.5°	2002.3	1930.7	1830.7	1687.5	1633.4
25°	1965.6	1878.4	1733.4	1551.7	1488.4
27.5°	1924.3	1816.9	1621.5	1412.2	1344.3
30°	1875.6	1742.6	1498.5	1275.5	1211.3
32.5°	1818.7	1659.1	1369.1	1152.5	1092.9
35°	1755.4	1562.7	1242.5	1043.3	996.5
37.5°	1682.9	1457.2	1125.0	955.3	925.0
40°	1600.3	1342.5	1016.7	887.3	877.3
42.5°	1511.3	1230.5	924.1	843.3	852.5
45°	1405.8	1114.0	846.1	815.8	840.5
47.5°	1294.8	1000.2	782.7	800.2	836.0
50°	1187.4	894.7	733.2	790.1	832.3
52.5°	1054.4	800.2	693.7	780.9	826.8
55°	939.7	710.2	660.7	768.1	815.8
57.5°	807.5	629.5	631.3	751.5	799.3
60°	697.4	556.1	602.9	728.6	774.5
62.5°	585.4	490.0	571.7	698.3	739.6
65°	479.9	429.5	537.7	658.9	693.7
67.5°	391.8	374.4	499.2	611.1	640.5
70°	317.5	323.9	457.0	557.9	582.7
72.5°	244.1	277.1	411.1	501.0	522.1
75°	186.3	233.1	362.5	444.1	462.5
77.5°	137.6	194.5	318.4	392.7	408.3
80°	97.3	160.6	277.1	347.8	359.7
82.5°	65.2	132.1	243.2	307.4	318.4
85°	37.6	108.3	213.8	273.5	280.8
87.5°	15.6	89.9	189.9	238.6	242.3
90°	1.8	76.2	168.8	203.7	201.9
92.5°	1.8	68.8	150.5	170.7	166.1
95°	1.8	64.2	134.0	143.2	138.6
97.5°	1.8	61.5	119.3	123.0	118.4
100°	0.9	59.6	109.2	109.2	104.6
102.5°	0.9	57.8	101.9	99.1	95.4
105°	0.9	56.0	96.4	93.6	89.0
107.5°	0.9	55.1	92.7	89.9	85.3
110°	0.9	53.2	89.9	87.2	83.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	52.3	88.1	86.3	81.7
115°	0.9	50.5	85.3	84.4	81.7
117.5°	0.9	48.6	83.5	83.5	80.8
120°	0.9	46.8	80.8	82.6	79.8
122.5°	0.9	45.0	78.0	80.8	78.0
125°	0.9	43.1	75.2	78.9	77.1
127.5°	1.8	40.4	71.6	77.1	75.2
130°	0.9	37.6	67.9	75.2	74.3
132.5°	1.8	34.9	64.2	72.5	72.5
135°	1.8	32.1	59.6	69.7	69.7
137.5°	1.8	28.4	55.1	66.1	67.0
140°	1.8	25.7	50.5	62.4	64.2
142.5°	1.8	22.9	45.9	58.7	61.5
145°	1.8	20.2	41.3	54.1	57.8
147.5°	1.8	18.4	36.7	48.6	54.1
150°	1.8	15.6	33.0	44.0	49.6
152.5°	1.8	13.8	29.4	39.5	45.9
155°	1.8	12.8	25.7	34.0	41.3
157.5°	1.8	11.0	22.0	29.4	36.7
160°	1.8	9.2	18.4	25.7	31.2
162.5°	1.8	8.3	15.6	21.1	27.5
165°	1.8	7.3	12.8	16.5	22.0
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)