

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-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-LD5-56SL-SLC-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

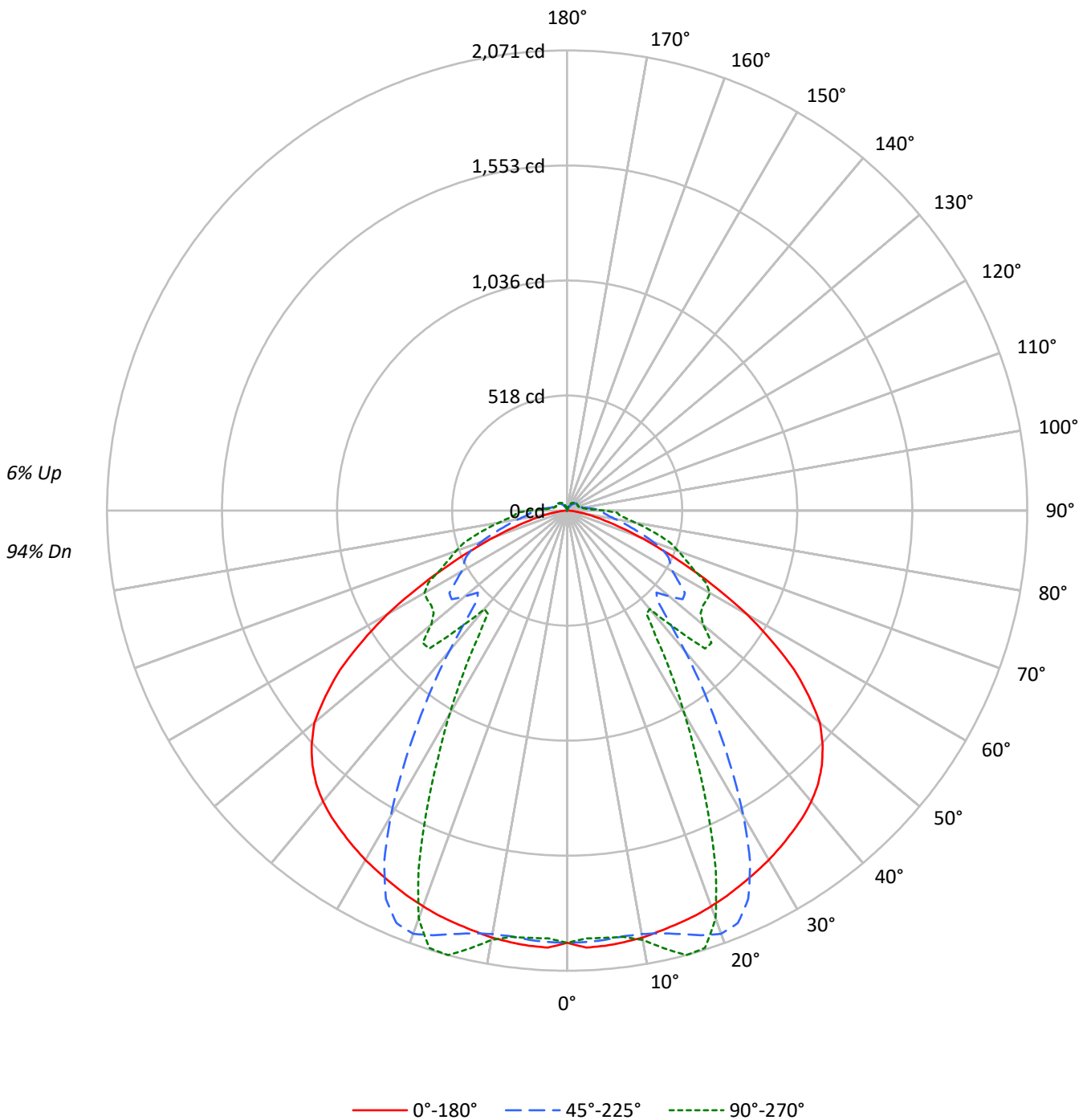
Lumens per Lamp: N/A
Luminaire Lumens: 4995.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	15714	15714	15714
5°	15904	15345	15157
10°	15925	15112	15105
15°	15968	15325	15743
20°	16116	15781	14777
25°	16317	15166	11378
30°	16640	12703	8093
35°	17052	9620	5480
40°	17573	6994	4640
45°	17972	5074	7295
50°	17996	5618	6924
55°	16822	6465	6837
60°	14333	5916	7267
65°	10783	5966	6647
70°	7568	5432	6188
75°	4958	4550	5552
80°	3166	3899	4621
85°	1708	3705	4148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	3.7
10°-20°	558.7	11.2
20°-30°	811.6	16.2
30°-40°	775.4	15.5
40°-50°	709.3	14.2
50°-60°	654.9	13.1
60°-70°	520.2	10.4
70°-80°	321.1	6.4
80°-90°	174.8	3.5
90°-100°	88.4	1.8
100°-110°	55.5	1.1
110°-120°	47.1	0.9
120°-130°	38.4	0.8
130°-140°	27.6	0.6
140°-150°	17.0	0.3
150°-160°	8.1	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1555.2	31.1
0°-40°	2330.6	46.7
0°-60°	3694.8	74.0
0°-90°	4710.9	94.3
90°-120°	191.0	3.8
90°-150°	274.0	5.5
90°-180°	284.0	5.7
0°-180°	4995.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1966	1936	1939	1929	1930	187
15°	1925	1899	1973	2046	2071	545
25°	1857	1893	1929	1633	1500	858
35°	1766	1738	1172	807	702	1108
45°	1622	1131	572	729	878	1246
55°	1247	580	647	696	745	1099
65°	602	376	504	613	628	608
75°	177	201	302	400	427	201
85°	25	85	171	233	237	32
90°	1	64	153	182	168	1
95°	0	59	106	94	89	0
105°	0	53	65	59	58	0
115°	0	44	63	56	53	0
125°	1	35	56	54	52	1
135°	1	25	45	49	47	1
145°	1	16	31	40	42	1
155°	2	10	19	25	30	1
165°	2	5	10	12	16	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°	1944.5	1944.5	1944.5	1944.5	1944.5
2.5°	1968.6	1940.2	1943.6	1937.6	1927.3
5°	1966.0	1935.9	1939.3	1929.0	1929.9
7.5°	1959.1	1928.2	1932.5	1930.7	1935.0
10°	1951.4	1918.7	1935.0	1949.7	1962.6
12.5°	1937.6	1908.4	1947.9	1991.0	2017.7
15°	1924.7	1898.9	1972.9	2046.1	2071.0
17.5°	1911.8	1895.4	2003.9	2067.6	2064.2
20°	1895.4	1893.7	2027.1	2005.6	1953.1
22.5°	1877.4	1894.6	2009.1	1851.5	1748.2
25°	1856.7	1892.9	1929.0	1632.9	1499.5
27.5°	1836.0	1885.1	1783.5	1393.6	1261.9
30°	1815.4	1864.5	1587.3	1175.0	1055.3
32.5°	1791.3	1819.7	1373.8	981.3	871.1
35°	1766.3	1737.9	1171.5	806.6	701.5
37.5°	1740.5	1620.0	989.9	653.3	586.2
40°	1709.5	1471.9	822.9	560.4	578.4
42.5°	1670.8	1304.9	675.7	587.9	713.6
45°	1621.7	1131.1	571.6	729.1	878.0
47.5°	1559.7	964.1	545.7	835.0	881.4
50°	1484.8	810.9	600.0	800.5	797.1
52.5°	1371.2	683.5	655.1	729.9	757.5
55°	1247.3	580.2	647.3	696.4	745.4
57.5°	1090.6	510.4	593.9	689.5	746.3
60°	934.8	464.0	548.3	688.6	742.0
62.5°	762.7	421.8	525.1	672.3	704.1
65°	601.7	376.2	504.4	612.9	627.5
67.5°	461.4	329.7	468.3	546.6	575.9
70°	347.8	284.1	411.5	495.8	532.0
72.5°	250.5	241.0	352.9	451.0	488.9
75°	177.3	200.6	302.1	400.3	426.9
77.5°	122.2	163.5	259.1	344.3	365.8
80°	80.1	130.8	220.4	296.1	310.7
82.5°	48.2	105.0	191.1	259.1	266.8
85°	25.0	85.2	171.3	233.3	236.7
87.5°	7.7	71.4	160.1	221.2	225.5
90°	0.9	63.7	153.2	181.6	167.9
92.5°	0.0	60.3	132.6	124.0	111.0
95°	0.0	59.4	105.9	93.8	88.7
97.5°	0.0	57.7	86.9	78.3	75.7
100°	0.0	56.0	74.9	68.9	68.0
102.5°	0.0	55.1	68.0	62.8	62.0
105°	0.0	53.4	65.4	59.4	58.5
107.5°	0.0	50.8	63.7	57.7	56.0
110°	0.0	48.2	63.7	56.8	54.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	45.6	63.7	56.0	53.4
115°	0.0	43.9	62.8	56.0	53.4
117.5°	0.9	42.2	62.0	56.0	53.4
120°	0.0	40.5	60.3	56.0	52.5
122.5°	0.9	37.9	58.5	55.1	52.5
125°	0.9	35.3	56.0	54.2	51.6
127.5°	0.9	32.7	53.4	52.5	49.9
130°	0.9	30.1	50.8	51.6	49.1
132.5°	0.9	27.5	47.3	49.9	48.2
135°	0.9	25.0	44.8	49.1	47.3
137.5°	0.9	22.4	41.3	46.5	46.5
140°	0.9	19.8	37.9	44.8	45.6
142.5°	0.9	18.1	34.4	43.0	43.9
145°	0.9	15.5	31.0	39.6	42.2
147.5°	0.9	13.8	27.5	36.2	39.6
150°	0.9	12.1	24.1	32.7	36.2
152.5°	0.9	10.3	21.5	28.4	33.6
155°	1.7	9.5	18.9	25.0	30.1
157.5°	1.7	7.7	15.5	21.5	25.8
160°	1.7	6.9	13.8	18.1	23.2
162.5°	1.7	6.0	11.2	15.5	19.8
165°	1.7	5.2	9.5	12.1	16.4
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)