

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-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 (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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

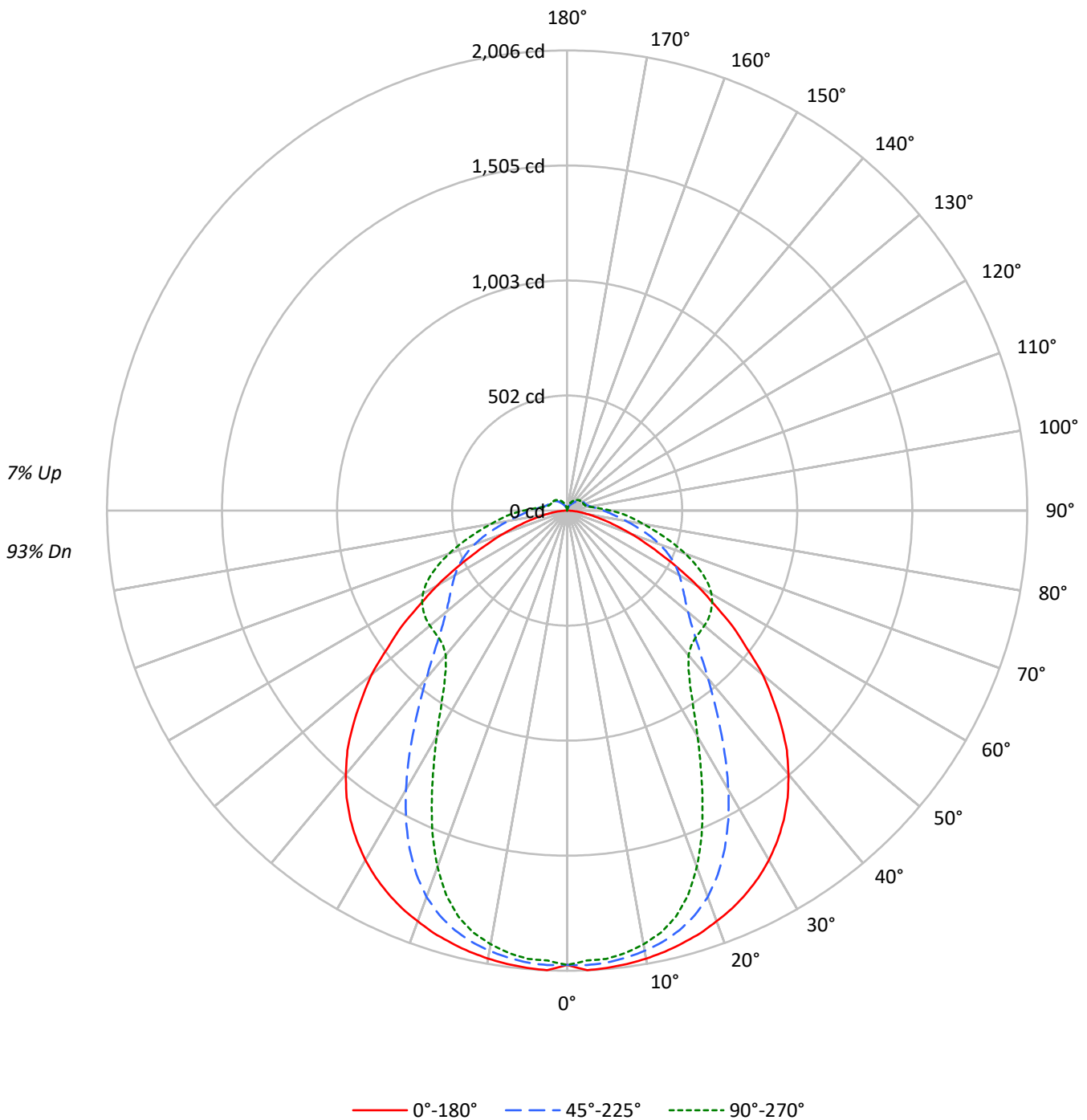
Lumens per Lamp: N/A
Luminaire Lumens: 4981.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	16005	16005	16005
5°	16190	15652	15407
10°	16184	15220	14773
15°	16190	14710	13931
20°	16197	13951	12511
25°	16204	12784	10595
30°	16126	11249	8714
35°	15897	9571	7303
40°	15432	8105	6601
45°	14614	7044	6552
50°	13500	6440	6781
55°	11887	6190	7018
60°	10030	6101	7115
65°	8068	5966	6893
70°	6480	5659	6358
75°	4885	5121	5641
80°	3605	4599	5018
85°	2412	4339	4616



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.4	3.8
10°-20°	529.6	10.6
20°-30°	740.4	14.9
30°-40°	768.0	15.4
40°-50°	709.5	14.2
50°-60°	633.4	12.7
60°-70°	513.4	10.3
70°-80°	341.4	6.9
80°-90°	195.5	3.9
90°-100°	108.2	2.2
100°-110°	73.3	1.5
110°-120°	61.0	1.2
120°-130°	49.6	1.0
130°-140°	35.8	0.7
140°-150°	21.6	0.4
150°-160°	10.4	0.2
160°-170°	2.7	0.1
170°-180°	0.0	0.0
0°-30°	1457.4	29.3
0°-40°	2225.4	44.7
0°-60°	3568.3	71.6
0°-90°	4618.6	92.7
90°-120°	242.4	4.9
90°-150°	349.3	7.0
90°-180°	362.0	7.3
0°-180°	4981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	2001	1968	1978	1964	1962	190
15°	1951	1910	1894	1851	1833	551
25°	1844	1762	1626	1456	1396	850
35°	1647	1466	1166	979	935	1027
45°	1319	1045	794	765	788	1014
55°	881	666	620	720	765	784
65°	450	403	504	618	651	455
75°	175	219	340	417	434	192
85°	35	102	201	256	263	41
90°	2	71	158	191	189	3
95°	2	60	126	134	130	1
105°	1	52	90	88	84	1
115°	1	47	80	79	77	1
125°	1	40	71	74	72	1
135°	2	30	56	65	65	1
145°	2	19	39	51	54	1
155°	2	12	24	32	39	1
165°	2	7	12	16	21	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1980.6	1980.6	1980.6	1980.6	1980.6
2.5°	2005.6	1972.9	1983.2	1974.6	1963.4
5°	2001.3	1967.7	1978.1	1964.3	1961.7
7.5°	1993.6	1960.0	1966.0	1949.7	1945.4
10°	1983.2	1947.9	1948.8	1925.6	1919.5
12.5°	1969.5	1930.7	1925.6	1893.7	1885.1
15°	1951.4	1910.1	1893.7	1850.7	1832.6
17.5°	1931.6	1883.4	1849.8	1783.5	1755.1
20°	1904.9	1850.7	1792.1	1691.4	1653.6
22.5°	1878.2	1811.1	1717.2	1583.0	1532.2
25°	1843.8	1762.0	1626.0	1455.6	1396.2
27.5°	1805.0	1704.3	1521.0	1324.7	1261.0
30°	1759.4	1634.6	1405.6	1196.5	1136.2
32.5°	1706.1	1556.3	1284.3	1081.1	1025.2
35°	1646.7	1465.9	1165.5	978.7	934.8
37.5°	1578.7	1366.9	1055.3	896.1	867.7
40°	1501.2	1259.3	953.7	832.4	822.9
42.5°	1417.7	1154.3	866.8	791.1	799.7
45°	1318.7	1045.0	793.6	765.2	788.5
47.5°	1214.6	938.2	734.2	750.6	784.2
50°	1113.8	839.3	687.8	741.1	780.7
52.5°	989.0	750.6	650.7	732.5	775.6
55°	881.4	666.2	619.8	720.5	765.2
57.5°	757.5	590.5	592.2	705.0	749.7
60°	654.2	521.6	565.5	683.5	726.5
62.5°	549.2	459.7	536.3	655.1	693.8
65°	450.2	402.8	504.4	618.0	650.7
67.5°	367.6	351.2	468.3	573.3	600.8
70°	297.8	303.9	428.7	523.4	546.6
72.5°	229.0	260.0	385.6	470.0	489.8
75°	174.7	218.6	340.0	416.6	433.8
77.5°	129.1	182.5	298.7	368.4	383.0
80°	91.2	150.6	260.0	326.2	337.4
82.5°	61.1	124.0	228.1	288.4	298.7
85°	35.3	101.6	200.6	256.5	263.4
87.5°	14.6	84.4	178.2	223.8	227.2
90°	1.7	71.4	158.4	191.1	189.4
92.5°	1.7	64.6	141.2	160.1	155.8
95°	1.7	60.3	125.7	134.3	130.0
97.5°	1.7	57.7	111.9	115.3	111.0
100°	0.9	56.0	102.4	102.4	98.1
102.5°	0.9	54.2	95.5	93.0	89.5
105°	0.9	52.5	90.4	87.8	83.5
107.5°	0.9	51.6	86.9	84.4	80.1
110°	0.9	49.9	84.4	81.8	78.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	49.1	82.6	80.9	76.6
115°	0.9	47.3	80.1	79.2	76.6
117.5°	0.9	45.6	78.3	78.3	75.7
120°	0.9	43.9	75.7	77.5	74.9
122.5°	0.9	42.2	73.2	75.7	73.2
125°	0.9	40.5	70.6	74.0	72.3
127.5°	1.7	37.9	67.1	72.3	70.6
130°	0.9	35.3	63.7	70.6	69.7
132.5°	1.7	32.7	60.3	68.0	68.0
135°	1.7	30.1	56.0	65.4	65.4
137.5°	1.7	26.7	51.6	62.0	62.8
140°	1.7	24.1	47.3	58.5	60.3
142.5°	1.7	21.5	43.0	55.1	57.7
145°	1.7	18.9	38.7	50.8	54.2
147.5°	1.7	17.2	34.4	45.6	50.8
150°	1.7	14.6	31.0	41.3	46.5
152.5°	1.7	12.9	27.5	37.0	43.0
155°	1.7	12.1	24.1	31.8	38.7
157.5°	1.7	10.3	20.7	27.5	34.4
160°	1.7	8.6	17.2	24.1	29.3
162.5°	1.7	7.7	14.6	19.8	25.8
165°	1.7	6.9	12.1	15.5	20.7
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)