

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-LD5-63HL-SLN-UNV-L930-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-LD5-63HL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

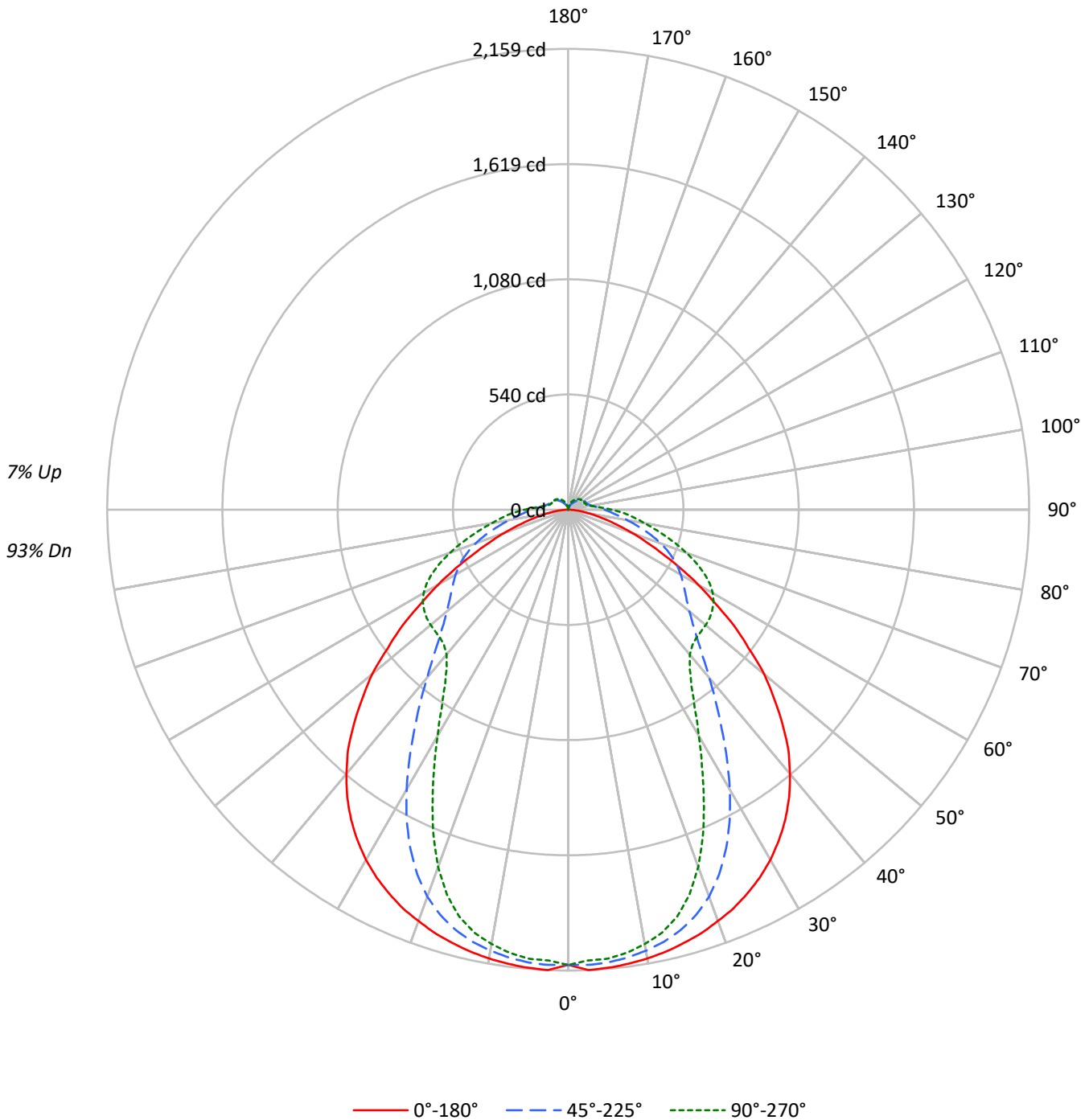
Lumens per Lamp: N/A
Luminaire Lumens: 5362.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 48
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°	17230	17230	17230
5°	17429	16850	16586
10°	17422	16384	15904
15°	17428	15835	14996
20°	17436	15019	13467
25°	17443	13762	11405
30°	17360	12110	9380
35°	17112	10303	7861
40°	16612	8726	7106
45°	15732	7583	7053
50°	14532	6933	7300
55°	12798	6664	7556
60°	10797	6568	7660
65°	8684	6423	7421
70°	6976	6092	6844
75°	5260	5512	6073
80°	3882	4950	5402
85°	2596	4670	4968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	3.8
10°-20°	570.2	10.6
20°-30°	797.0	14.9
30°-40°	826.7	15.4
40°-50°	763.7	14.2
50°-60°	681.9	12.7
60°-70°	552.6	10.3
70°-80°	367.6	6.9
80°-90°	210.5	3.9
90°-100°	116.5	2.2
100°-110°	78.9	1.5
110°-120°	65.6	1.2
120°-130°	53.4	1.0
130°-140°	38.5	0.7
140°-150°	23.2	0.4
150°-160°	11.2	0.2
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-30°	1568.9	29.3
0°-40°	2395.6	44.7
0°-60°	3841.2	71.6
0°-90°	4971.9	92.7
90°-120°	261.0	4.9
90°-150°	376.1	7.0
90°-180°	390.0	7.3
0°-180°	5362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2154	2118	2129	2114	2112	205
15°	2101	2056	2039	1992	1973	594
25°	1985	1897	1750	1567	1503	915
35°	1773	1578	1255	1054	1006	1106
45°	1420	1125	854	824	849	1091
55°	949	717	667	776	824	844
65°	485	434	543	665	700	490
75°	188	235	366	448	467	206
85°	38	109	216	276	284	44
90°	2	77	170	206	204	3
95°	2	65	135	145	140	1
105°	1	56	97	94	90	1
115°	1	51	86	85	82	1
125°	1	44	76	80	78	1
135°	2	32	60	70	70	1
145°	2	20	42	55	58	1
155°	2	13	26	34	42	1
165°	2	7	13	17	22	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2132.1	2132.1	2132.1	2132.1	2132.1
2.5°	2159.0	2123.8	2134.9	2125.7	2113.6
5°	2154.4	2118.2	2129.4	2114.5	2111.8
7.5°	2146.0	2109.9	2116.4	2098.8	2094.2
10°	2134.9	2096.9	2097.9	2072.8	2066.4
12.5°	2120.1	2078.4	2072.8	2038.6	2029.3
15°	2100.6	2056.2	2038.6	1992.2	1972.8
17.5°	2079.3	2027.4	1991.3	1920.0	1889.4
20°	2050.6	1992.2	1929.2	1820.8	1780.0
22.5°	2021.9	1949.6	1848.6	1704.0	1649.4
25°	1984.8	1896.8	1750.4	1566.9	1503.0
27.5°	1943.1	1834.7	1637.3	1426.1	1357.5
30°	1894.0	1759.6	1513.2	1288.0	1223.1
32.5°	1836.6	1675.3	1382.5	1163.8	1103.6
35°	1772.6	1578.0	1254.6	1053.6	1006.3
37.5°	1699.4	1471.5	1136.0	964.6	934.0
40°	1616.0	1355.6	1026.7	896.0	885.8
42.5°	1526.1	1242.6	933.1	851.6	860.8
45°	1419.6	1124.9	854.3	823.8	848.8
47.5°	1307.5	1010.0	790.4	808.0	844.1
50°	1199.0	903.5	740.4	797.8	840.4
52.5°	1064.7	808.0	700.5	788.6	834.9
55°	948.9	717.2	667.2	775.6	823.8
57.5°	815.4	635.7	637.5	758.9	807.1
60°	704.2	561.5	608.8	735.7	782.1
62.5°	591.2	494.8	577.3	705.2	746.9
65°	484.6	433.7	543.0	665.3	700.5
67.5°	395.7	378.1	504.1	617.1	646.8
70°	320.6	327.1	461.5	563.4	588.4
72.5°	246.5	279.8	415.1	505.9	527.2
75°	188.1	235.4	366.0	448.5	467.0
77.5°	139.0	196.4	321.5	396.6	412.3
80°	98.2	162.2	279.8	351.2	363.2
82.5°	65.8	133.4	245.6	310.4	321.5
85°	38.0	109.3	215.9	276.1	283.5
87.5°	15.8	90.8	191.8	240.9	244.6
90°	1.9	76.9	170.5	205.7	203.9
92.5°	1.9	69.5	152.0	172.4	167.7
95°	1.9	64.9	135.3	144.6	139.9
97.5°	1.9	62.1	120.5	124.2	119.5
100°	0.9	60.2	110.3	110.3	105.6
102.5°	0.9	58.4	102.9	100.1	96.4
105°	0.9	56.5	97.3	94.5	89.9
107.5°	0.9	55.6	93.6	90.8	86.2
110°	0.9	53.7	90.8	88.0	84.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	52.8	89.0	87.1	82.5
115°	0.9	51.0	86.2	85.2	82.5
117.5°	0.9	49.1	84.3	84.3	81.5
120°	0.9	47.3	81.5	83.4	80.6
122.5°	0.9	45.4	78.8	81.5	78.8
125°	0.9	43.6	76.0	79.7	77.8
127.5°	1.9	40.8	72.3	77.8	76.0
130°	0.9	38.0	68.6	76.0	75.1
132.5°	1.9	35.2	64.9	73.2	73.2
135°	1.9	32.4	60.2	70.4	70.4
137.5°	1.9	28.7	55.6	66.7	67.6
140°	1.9	25.9	51.0	63.0	64.9
142.5°	1.9	23.2	46.3	59.3	62.1
145°	1.9	20.4	41.7	54.7	58.4
147.5°	1.9	18.5	37.1	49.1	54.7
150°	1.9	15.8	33.4	44.5	50.0
152.5°	1.9	13.9	29.7	39.8	46.3
155°	1.9	13.0	25.9	34.3	41.7
157.5°	1.9	11.1	22.2	29.7	37.1
160°	1.9	9.3	18.5	25.9	31.5
162.5°	1.9	8.3	15.8	21.3	27.8
165°	1.9	7.4	13.0	16.7	22.2
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)