

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-L830-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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

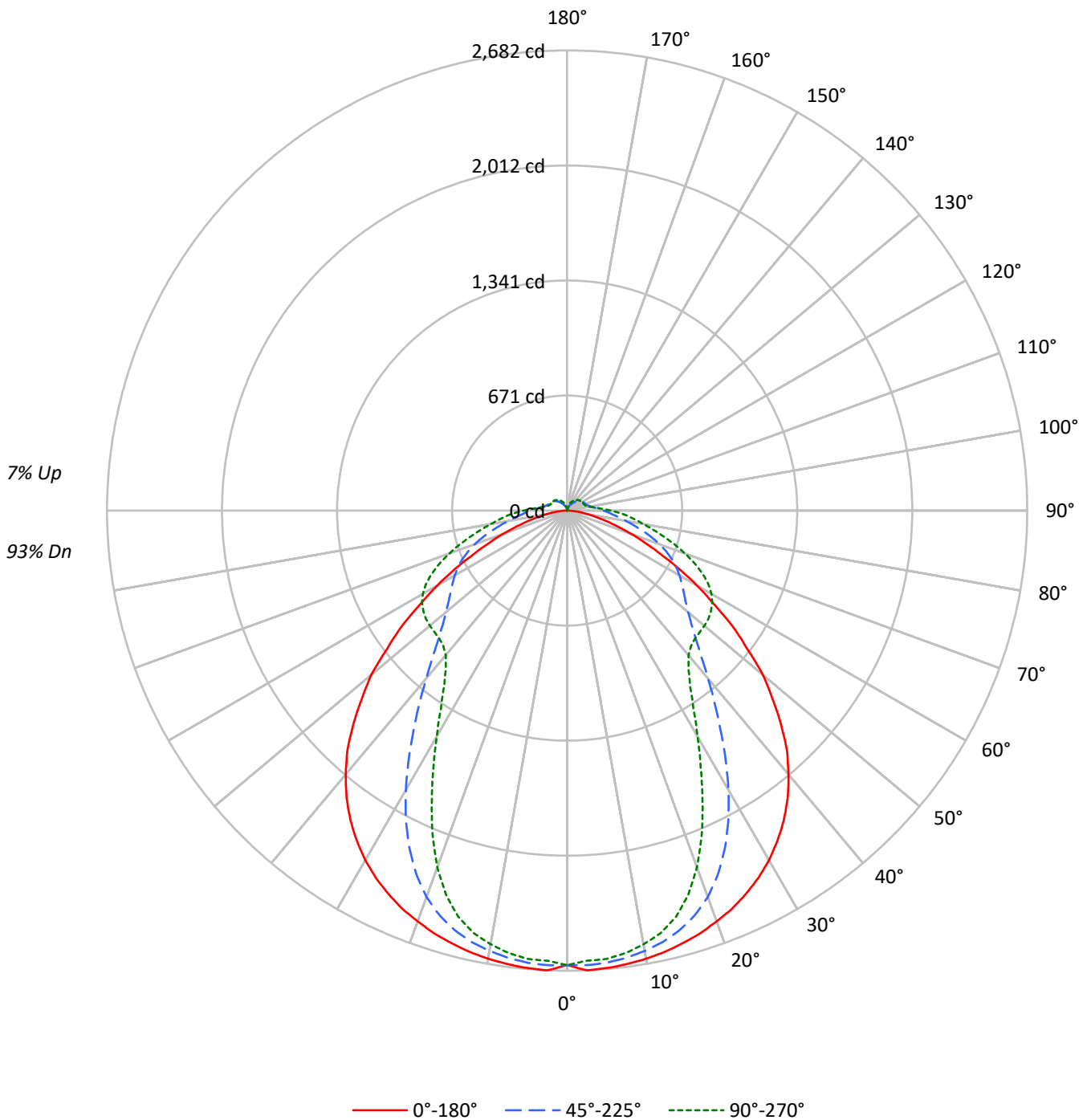
Lumens per Lamp: N/A
Luminaire Lumens: 6661.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	21404	21404	21404
5°	21651	20931	20604
10°	21643	20353	19756
15°	21650	19671	18629
20°	21660	18657	16731
25°	21669	17096	14168
30°	21565	15043	11653
35°	21259	12799	9766
40°	20636	10839	8828
45°	19543	9420	8761
50°	18053	8611	9068
55°	15897	8278	9386
60°	13413	8160	9515
65°	10788	7978	9219
70°	8667	7566	8501
75°	6535	6848	7545
80°	4823	6149	6711
85°	3225	5801	6172



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.6	3.8
10°-20°	708.3	10.6
20°-30°	990.1	14.9
30°-40°	1027.0	15.4
40°-50°	948.8	14.2
50°-60°	847.1	12.7
60°-70°	686.5	10.3
70°-80°	456.6	6.9
80°-90°	261.5	3.9
90°-100°	144.6	2.2
100°-110°	98.0	1.5
110°-120°	81.6	1.2
120°-130°	66.3	1.0
130°-140°	47.8	0.7
140°-150°	28.8	0.4
150°-160°	13.9	0.2
160°-170°	3.6	0.1
170°-180°	0.0	0.0
0°-30°	1949.0	29.3
0°-40°	2976.0	44.7
0°-60°	4771.8	71.6
0°-90°	6176.4	92.7
90°-120°	324.2	4.9
90°-150°	467.2	7.0
90°-180°	485.0	7.3
0°-180°	6661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2649	2649	2649	2649	2649	
5°	2676	2631	2645	2627	2623	255
15°	2610	2554	2532	2475	2451	737
25°	2466	2356	2174	1946	1867	1136
35°	2202	1960	1559	1309	1250	1374
45°	1764	1397	1061	1023	1054	1356
55°	1179	891	829	964	1023	1048
65°	602	539	674	826	870	609
75°	234	292	455	557	580	256
85°	47	136	268	343	352	54
90°	2	96	212	256	253	4
95°	2	81	168	180	174	2
105°	1	70	121	117	112	1
115°	1	63	107	106	102	1
125°	1	54	94	99	97	1
135°	2	40	75	88	88	2
145°	2	25	52	68	72	1
155°	2	16	32	43	52	1
165°	2	9	16	21	28	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°	2648.7	2648.7	2648.7	2648.7	2648.7
2.5°	2682.1	2638.3	2652.1	2640.6	2625.7
5°	2676.3	2631.4	2645.2	2626.8	2623.4
7.5°	2665.9	2621.1	2629.1	2607.2	2601.5
10°	2652.1	2604.9	2606.1	2575.0	2567.0
12.5°	2633.7	2581.9	2575.0	2532.4	2520.9
15°	2609.5	2554.3	2532.4	2474.9	2450.7
17.5°	2583.1	2518.6	2473.7	2385.1	2347.1
20°	2547.4	2474.9	2396.6	2261.9	2211.3
22.5°	2511.7	2421.9	2296.4	2116.9	2049.0
25°	2465.7	2356.3	2174.4	1946.5	1867.1
27.5°	2413.9	2279.2	2034.0	1771.5	1686.4
30°	2352.8	2185.9	1879.7	1600.0	1519.5
32.5°	2281.5	2081.2	1717.4	1445.8	1371.0
35°	2202.1	1960.3	1558.6	1308.8	1250.1
37.5°	2111.1	1827.9	1411.2	1198.3	1160.3
40°	2007.5	1684.1	1275.4	1113.1	1100.5
42.5°	1895.9	1543.6	1159.2	1057.9	1069.4
45°	1763.5	1397.4	1061.3	1023.3	1054.4
47.5°	1624.2	1254.7	981.9	1003.8	1048.7
50°	1489.5	1122.3	919.7	991.1	1044.0
52.5°	1322.6	1003.8	870.2	979.6	1037.1
55°	1178.7	891.0	828.8	963.5	1023.3
57.5°	1013.0	789.7	792.0	942.8	1002.6
60°	874.8	697.6	756.3	914.0	971.5
62.5°	734.4	614.7	717.1	876.0	927.8
65°	602.0	538.7	674.5	826.5	870.2
67.5°	491.5	469.6	626.2	766.6	803.5
70°	398.3	406.3	573.2	699.9	730.9
72.5°	306.2	347.6	515.7	628.5	655.0
75°	233.7	292.4	454.7	557.1	580.2
77.5°	172.7	244.0	399.4	492.7	512.2
80°	122.0	201.4	347.6	436.3	451.2
82.5°	81.7	165.8	305.0	385.6	399.4
85°	47.2	135.8	268.2	343.0	352.2
87.5°	19.6	112.8	238.3	299.3	303.9
90°	2.3	95.5	211.8	255.5	253.2
92.5°	2.3	86.3	188.8	214.1	208.3
95°	2.3	80.6	168.1	179.6	173.8
97.5°	2.3	77.1	149.6	154.2	148.5
100°	1.2	74.8	137.0	137.0	131.2
102.5°	1.2	72.5	127.8	124.3	119.7
105°	1.2	70.2	120.9	117.4	111.7
107.5°	1.2	69.1	116.3	112.8	107.1
110°	1.2	66.8	112.8	109.4	104.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	65.6	110.5	108.2	102.4
115°	1.2	63.3	107.1	105.9	102.4
117.5°	1.2	61.0	104.8	104.8	101.3
120°	1.2	58.7	101.3	103.6	100.1
122.5°	1.2	56.4	97.8	101.3	97.8
125°	1.2	54.1	94.4	99.0	96.7
127.5°	2.3	50.6	89.8	96.7	94.4
130°	1.2	47.2	85.2	94.4	93.2
132.5°	2.3	43.7	80.6	90.9	90.9
135°	2.3	40.3	74.8	87.5	87.5
137.5°	2.3	35.7	69.1	82.9	84.0
140°	2.3	32.2	63.3	78.3	80.6
142.5°	2.3	28.8	57.6	73.7	77.1
145°	2.3	25.3	51.8	67.9	72.5
147.5°	2.3	23.0	46.0	61.0	67.9
150°	2.3	19.6	41.4	55.3	62.2
152.5°	2.3	17.3	36.8	49.5	57.6
155°	2.3	16.1	32.2	42.6	51.8
157.5°	2.3	13.8	27.6	36.8	46.0
160°	2.3	11.5	23.0	32.2	39.1
162.5°	2.3	10.4	19.6	26.5	34.5
165°	2.3	9.2	16.1	20.7	27.6
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)