

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-L835-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-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

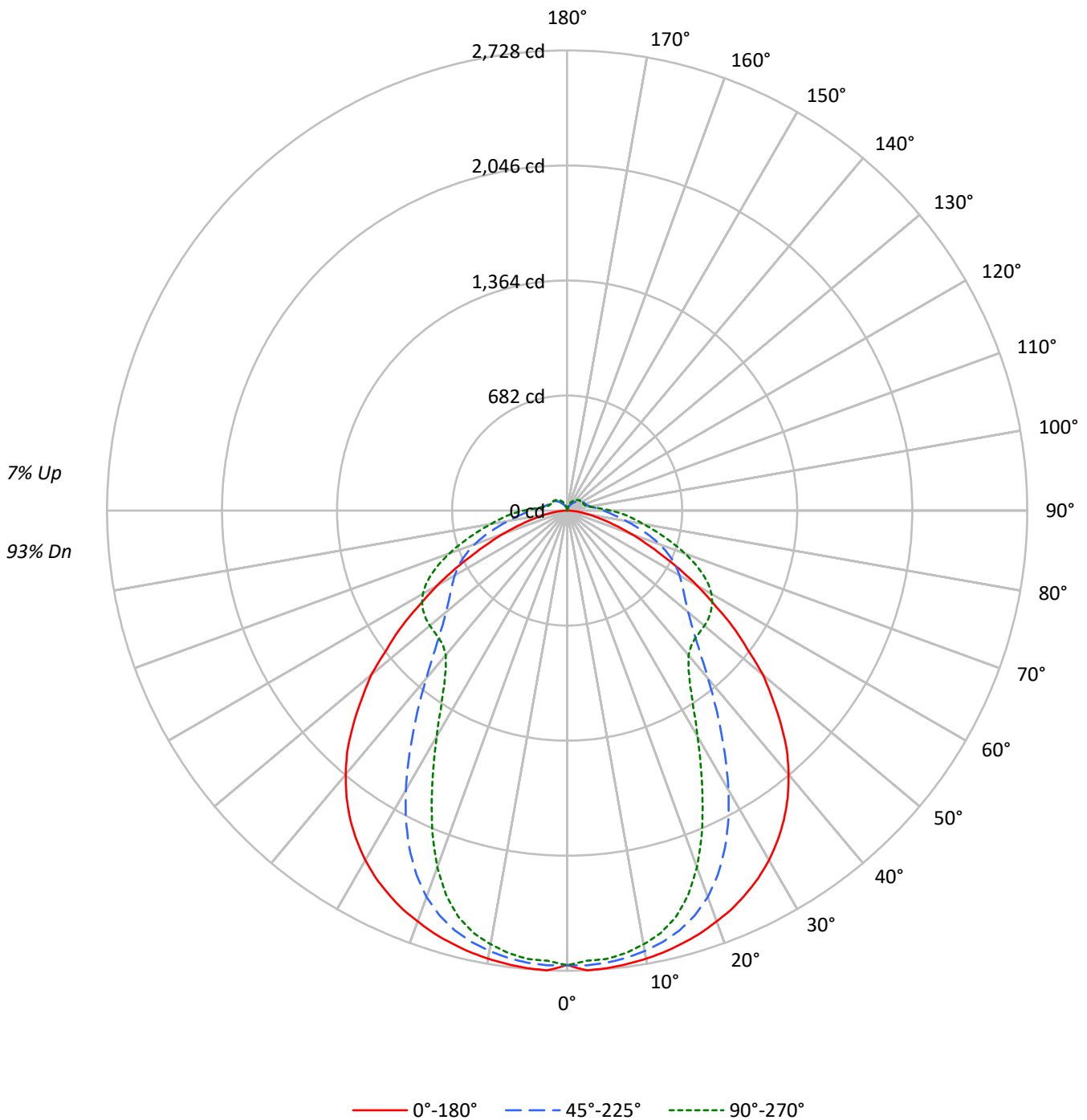
Lumens per Lamp: N/A
Luminaire Lumens: 6776.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-63HL-SLN-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-63HL-SLN-UNV-L835-CD1-U

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°	21773	21773	21773
5°	22024	21293	20959
10°	22017	20704	20097
15°	22024	20010	18951
20°	22034	18980	17019
25°	22043	17391	14412
30°	21938	15303	11854
35°	21626	13020	9934
40°	20993	11026	8981
45°	19880	9583	8912
50°	18365	8760	9225
55°	16172	8421	9548
60°	13644	8300	9680
65°	10974	8116	9378
70°	8817	7697	8649
75°	6646	6966	7675
80°	4906	6255	6827
85°	3279	5901	6279



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-63HL-SLN-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	3.8
10°-20°	720.5	10.6
20°-30°	1007.2	14.9
30°-40°	1044.7	15.4
40°-50°	965.2	14.2
50°-60°	861.7	12.7
60°-70°	698.3	10.3
70°-80°	464.5	6.9
80°-90°	266.0	3.9
90°-100°	147.2	2.2
100°-110°	99.7	1.5
110°-120°	83.0	1.2
120°-130°	67.4	1.0
130°-140°	48.7	0.7
140°-150°	29.3	0.4
150°-160°	14.1	0.2
160°-170°	3.6	0.1
170°-180°	0.0	0.0
0°-30°	1982.6	29.3
0°-40°	3027.4	44.7
0°-60°	4854.2	71.6
0°-90°	6283.0	92.7
90°-120°	329.8	4.9
90°-150°	475.2	7.0
90°-180°	493.0	7.3
0°-180°	6776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2694	2694	2694	2694	2694	
5°	2722	2677	2691	2672	2669	259
15°	2655	2598	2576	2518	2493	750
25°	2508	2397	2212	1980	1899	1156
35°	2240	1994	1586	1331	1272	1398
45°	1794	1422	1080	1041	1073	1379
55°	1199	906	843	980	1041	1066
65°	612	548	686	841	885	619
75°	238	297	462	567	590	261
85°	48	138	273	349	358	55
90°	2	97	216	260	258	4
95°	2	82	171	183	177	2
105°	1	71	123	119	114	1
115°	1	64	109	108	104	1
125°	1	55	96	101	98	1
135°	2	41	76	89	89	2
145°	2	26	53	69	74	1
155°	2	16	33	43	53	1
165°	2	9	16	21	28	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-63HL-SLN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2694.4	2694.4	2694.4	2694.4	2694.4
2.5°	2728.4	2683.9	2697.9	2686.2	2671.0
5°	2722.5	2676.8	2690.9	2672.2	2668.6
7.5°	2712.0	2666.3	2674.5	2652.3	2646.4
10°	2697.9	2649.9	2651.1	2619.5	2611.3
12.5°	2679.2	2626.5	2619.5	2576.1	2564.4
15°	2654.6	2598.4	2576.1	2517.6	2493.0
17.5°	2627.7	2562.1	2516.4	2426.3	2387.6
20°	2591.4	2517.6	2438.0	2301.0	2249.4
22.5°	2555.1	2463.7	2336.1	2153.4	2084.3
25°	2508.2	2397.0	2212.0	1980.1	1899.3
27.5°	2455.5	2318.5	2069.1	1802.1	1715.5
30°	2393.5	2223.7	1912.2	1627.7	1545.7
32.5°	2320.9	2117.1	1747.1	1470.7	1394.6
35°	2240.1	1994.2	1585.5	1331.4	1271.7
37.5°	2147.6	1859.5	1435.6	1219.0	1180.3
40°	2042.2	1713.1	1297.4	1132.3	1119.5
42.5°	1928.6	1570.3	1179.2	1076.1	1087.8
45°	1793.9	1421.6	1079.6	1041.0	1072.6
47.5°	1652.2	1276.4	998.8	1021.1	1066.8
50°	1515.2	1141.7	935.6	1008.2	1062.1
52.5°	1345.4	1021.1	885.3	996.5	1055.0
55°	1199.1	906.3	843.1	980.1	1041.0
57.5°	1030.5	803.3	805.6	959.0	1019.9
60°	889.9	709.6	769.3	929.8	988.3
62.5°	747.1	625.3	729.5	891.1	943.8
65°	612.4	548.0	686.2	840.8	885.3
67.5°	500.0	477.8	637.0	779.9	817.3
70°	405.2	413.4	583.1	712.0	743.6
72.5°	311.5	353.6	524.6	639.4	666.3
75°	237.7	297.4	462.5	566.8	590.2
77.5°	175.6	248.2	406.3	501.2	521.1
80°	124.1	204.9	353.6	443.8	459.0
82.5°	83.1	168.6	310.3	392.3	406.3
85°	48.0	138.2	272.8	348.9	358.3
87.5°	19.9	114.8	242.4	304.5	309.1
90°	2.3	97.2	215.5	260.0	257.6
92.5°	2.3	87.8	192.0	217.8	211.9
95°	2.3	82.0	171.0	182.7	176.8
97.5°	2.3	78.5	152.2	156.9	151.1
100°	1.2	76.1	139.3	139.3	133.5
102.5°	1.2	73.8	130.0	126.5	121.8
105°	1.2	71.4	123.0	119.4	113.6
107.5°	1.2	70.3	118.3	114.8	108.9
110°	1.2	67.9	114.8	111.2	106.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-63HL-SLN-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	66.7	112.4	110.1	104.2
115°	1.2	64.4	108.9	107.7	104.2
117.5°	1.2	62.1	106.6	106.6	103.0
120°	1.2	59.7	103.0	105.4	101.9
122.5°	1.2	57.4	99.5	103.0	99.5
125°	1.2	55.0	96.0	100.7	98.4
127.5°	2.3	51.5	91.3	98.4	96.0
130°	1.2	48.0	86.7	96.0	94.8
132.5°	2.3	44.5	82.0	92.5	92.5
135°	2.3	41.0	76.1	89.0	89.0
137.5°	2.3	36.3	70.3	84.3	85.5
140°	2.3	32.8	64.4	79.6	82.0
142.5°	2.3	29.3	58.5	74.9	78.5
145°	2.3	25.8	52.7	69.1	73.8
147.5°	2.3	23.4	46.8	62.1	69.1
150°	2.3	19.9	42.2	56.2	63.2
152.5°	2.3	17.6	37.5	50.4	58.5
155°	2.3	16.4	32.8	43.3	52.7
157.5°	2.3	14.1	28.1	37.5	46.8
160°	2.3	11.7	23.4	32.8	39.8
162.5°	2.3	10.5	19.9	26.9	35.1
165°	2.3	9.4	16.4	21.1	28.1
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)