

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-LD5-63SL-SLC-UNV-L840-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-LD5-63SL-SLC-UNV-L840-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

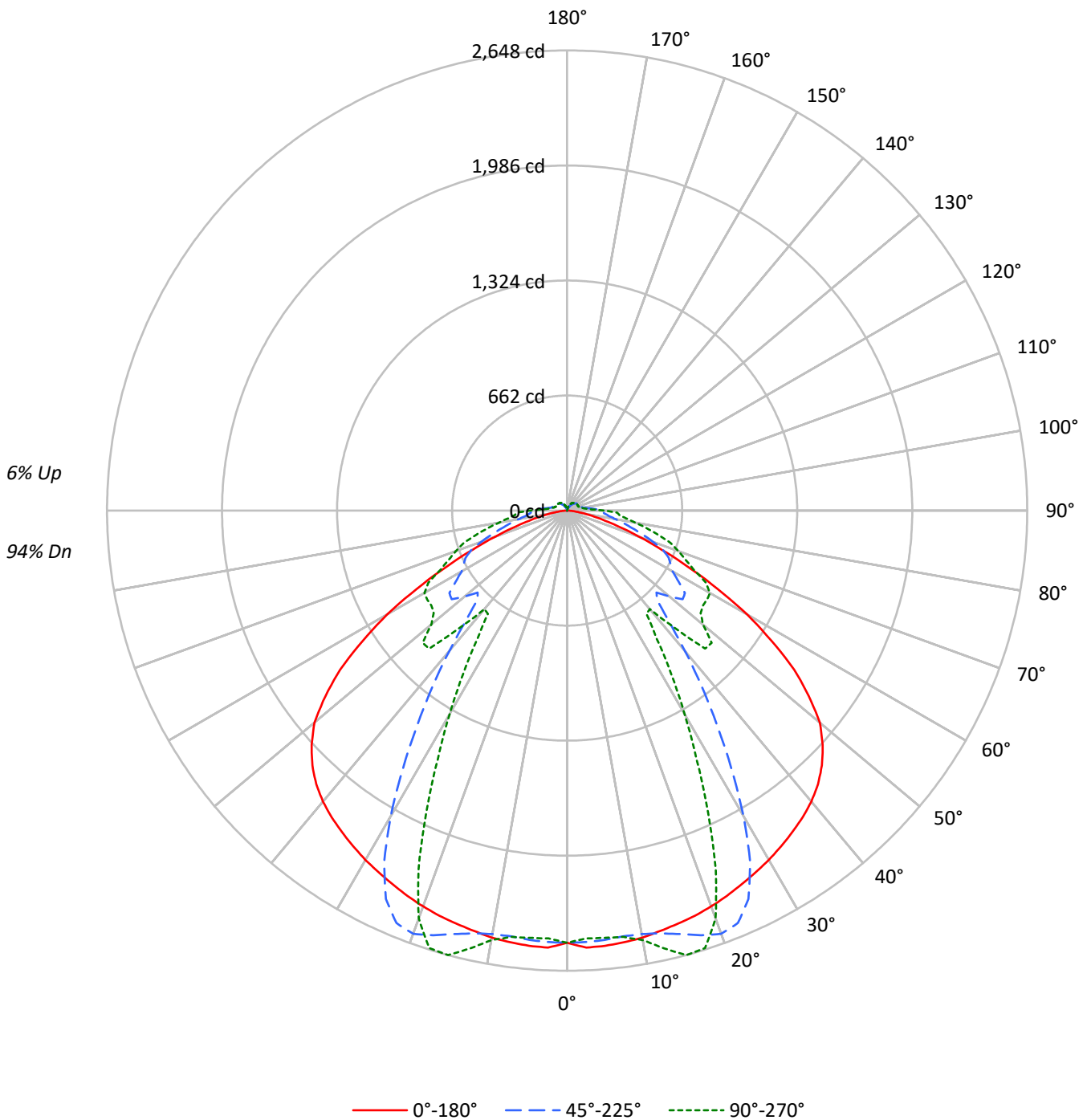
Lumens per Lamp: N/A  
Luminaire Lumens: 6386.9 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 52  
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	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	64	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°	20093	20093	20093
5°	20337	19622	19381
10°	20363	19324	19314
15°	20419	19595	20130
20°	20609	20179	18895
25°	20864	19393	14550
30°	21277	16242	10349
35°	21804	12301	7007
40°	22470	8942	5933
45°	22980	6487	9329
50°	23012	7184	8853
55°	21510	8267	8743
60°	18327	7564	9293
65°	13788	7629	8500
70°	9676	6944	7912
75°	6339	5818	7099
80°	4048	4985	5909
85°	2179	4737	5305



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.5	3.7
10°-20°	714.4	11.2
20°-30°	1037.7	16.2
30°-40°	991.5	15.5
40°-50°	906.9	14.2
50°-60°	837.4	13.1
60°-70°	665.2	10.4
70°-80°	410.6	6.4
80°-90°	223.6	3.5
90°-100°	113.0	1.8
100°-110°	71.0	1.1
110°-120°	60.1	0.9
120°-130°	49.1	0.8
130°-140°	35.2	0.6
140°-150°	21.7	0.3
150°-160°	10.3	0.2
160°-170°	2.7	0.0
170°-180°	0.0	0.0
0°-30°	1988.6	31.1
0°-40°	2980.1	46.7
0°-60°	4724.5	74.0
0°-90°	6023.8	94.3
90°-120°	244.1	3.8
90°-150°	350.1	5.5
90°-180°	363.0	5.7
0°-180°	6386.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2486	2486	2486	2486	2486	
5°	2514	2475	2480	2467	2468	239
15°	2461	2428	2523	2616	2648	697
25°	2374	2420	2467	2088	1917	1097
35°	2259	2222	1498	1031	897	1416
45°	2074	1446	731	932	1123	1594
55°	1595	742	828	890	953	1405
65°	769	481	645	784	802	778
75°	227	256	386	512	546	257
85°	32	109	219	298	303	41
90°	1	81	196	232	215	2
95°	0	76	135	120	113	0
105°	0	68	84	76	75	0
115°	0	56	80	72	68	1
125°	1	45	72	69	66	1
135°	1	32	57	63	60	1
145°	1	20	40	51	54	1
155°	2	12	24	32	38	1
165°	2	7	12	15	21	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°	2486.4	2486.4	2486.4	2486.4	2486.4
2.5°	2517.2	2480.9	2485.3	2477.6	2464.4
5°	2513.9	2475.4	2479.8	2466.6	2467.7
7.5°	2505.1	2465.5	2471.0	2468.8	2474.3
10°	2495.2	2453.4	2474.3	2493.0	2509.5
12.5°	2477.6	2440.2	2490.8	2545.8	2580.0
15°	2461.1	2428.1	2522.7	2616.3	2648.2
17.5°	2444.6	2423.7	2562.3	2643.8	2639.4
20°	2423.7	2421.5	2592.1	2564.5	2497.4
22.5°	2400.5	2422.6	2568.9	2367.5	2235.4
25°	2374.1	2420.4	2466.6	2088.0	1917.4
27.5°	2347.7	2410.5	2280.6	1782.0	1613.6
30°	2321.3	2384.0	2029.6	1502.4	1349.4
32.5°	2290.5	2326.8	1756.7	1254.8	1113.9
35°	2258.6	2222.2	1498.0	1031.3	897.0
37.5°	2225.5	2071.4	1265.8	835.4	749.6
40°	2185.9	1882.1	1052.2	716.5	739.6
42.5°	2136.4	1668.6	864.0	751.8	912.4
45°	2073.6	1446.3	730.8	932.3	1122.7
47.5°	1994.4	1232.7	697.8	1067.6	1127.1
50°	1898.6	1036.8	767.2	1023.6	1019.2
52.5°	1753.4	873.9	837.6	933.4	968.6
55°	1594.9	741.8	827.7	890.4	953.2
57.5°	1394.5	652.7	759.5	881.6	954.3
60°	1195.3	593.3	701.1	880.5	948.8
62.5°	975.2	539.3	671.4	859.6	900.3
65°	769.4	481.0	645.0	783.7	802.4
67.5°	590.0	421.6	598.8	698.9	736.3
70°	444.7	363.2	526.1	634.0	680.2
72.5°	320.3	308.2	451.3	576.7	625.2
75°	226.7	256.5	386.3	511.8	545.9
77.5°	156.3	209.1	331.3	440.3	467.8
80°	102.4	167.3	281.8	378.6	397.3
82.5°	61.6	134.3	244.3	331.3	341.2
85°	31.9	109.0	219.0	298.3	302.7
87.5°	9.9	91.4	204.7	282.9	288.4
90°	1.1	81.4	195.9	232.2	214.6
92.5°	0.0	77.0	169.5	158.5	142.0
95°	0.0	75.9	135.4	120.0	113.4
97.5°	0.0	73.7	111.2	100.2	96.9
100°	0.0	71.5	95.8	88.1	87.0
102.5°	0.0	70.4	87.0	80.3	79.2
105°	0.0	68.2	83.7	75.9	74.8
107.5°	0.0	64.9	81.4	73.7	71.5
110°	0.0	61.6	81.4	72.6	69.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	58.3	81.4	71.5	68.2
115°	0.0	56.1	80.3	71.5	68.2
117.5°	1.1	53.9	79.2	71.5	68.2
120°	0.0	51.7	77.0	71.5	67.1
122.5°	1.1	48.4	74.8	70.4	67.1
125°	1.1	45.1	71.5	69.3	66.0
127.5°	1.1	41.8	68.2	67.1	63.8
130°	1.1	38.5	64.9	66.0	62.7
132.5°	1.1	35.2	60.5	63.8	61.6
135°	1.1	31.9	57.2	62.7	60.5
137.5°	1.1	28.6	52.8	59.4	59.4
140°	1.1	25.3	48.4	57.2	58.3
142.5°	1.1	23.1	44.0	55.0	56.1
145°	1.1	19.8	39.6	50.6	53.9
147.5°	1.1	17.6	35.2	46.2	50.6
150°	1.1	15.4	30.8	41.8	46.2
152.5°	1.1	13.2	27.5	36.3	42.9
155°	2.2	12.1	24.2	31.9	38.5
157.5°	2.2	9.9	19.8	27.5	33.0
160°	2.2	8.8	17.6	23.1	29.7
162.5°	2.2	7.7	14.3	19.8	25.3
165°	2.2	6.6	12.1	15.4	20.9
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)