

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-LD5-73SL-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-LD5-73SL-SLC-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

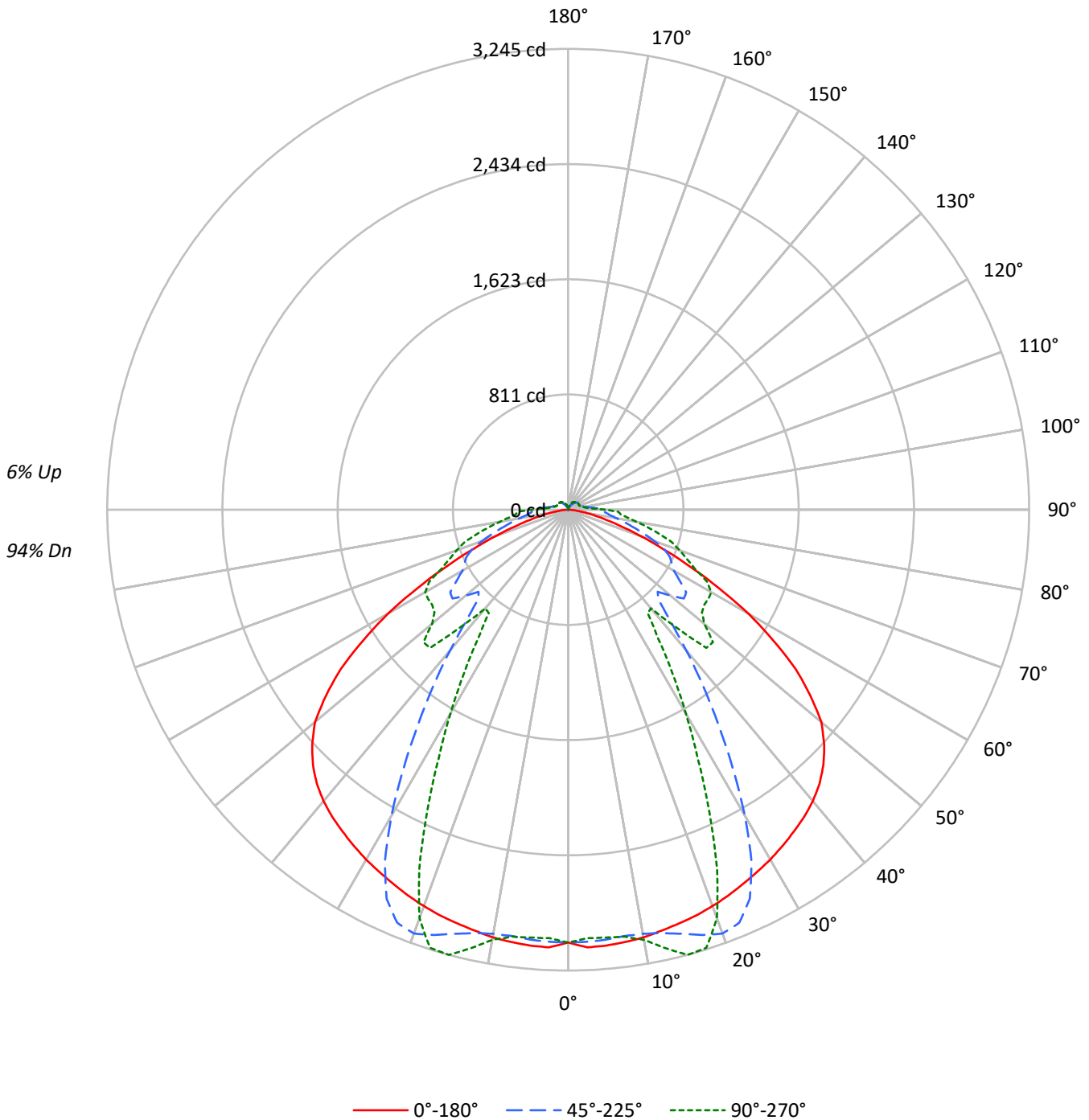
Lumens per Lamp: N/A
Luminaire Lumens: 7827.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
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	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°	24623	24623	24623
5°	24922	24046	23750
10°	24954	23680	23668
15°	25023	24014	24669
20°	25255	24729	23156
25°	25569	23765	17829
30°	26074	19904	12682
35°	26720	15074	8588
40°	27536	10959	7271
45°	28162	7949	11432
50°	28201	8802	10849
55°	26359	10130	10714
60°	22459	9270	11388
65°	16895	9349	10417
70°	11857	8510	9696
75°	7771	7130	8700
80°	4957	6108	7242
85°	2671	5806	6500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.9	3.7
10°-20°	875.4	11.2
20°-30°	1271.7	16.2
30°-40°	1215.0	15.5
40°-50°	1111.4	14.2
50°-60°	1026.2	13.1
60°-70°	815.1	10.4
70°-80°	503.1	6.4
80°-90°	274.0	3.5
90°-100°	138.5	1.8
100°-110°	87.0	1.1
110°-120°	73.7	0.9
120°-130°	60.2	0.8
130°-140°	43.2	0.6
140°-150°	26.6	0.3
150°-160°	12.6	0.2
160°-170°	3.3	0.0
170°-180°	0.0	0.0
0°-30°	2437.0	31.1
0°-40°	3652.0	46.7
0°-60°	5789.6	74.0
0°-90°	7381.9	94.3
90°-120°	299.2	3.8
90°-150°	429.2	5.5
90°-180°	445.0	5.7
0°-180°	7827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3047	3047	3047	3047	3047	
5°	3081	3034	3039	3023	3024	293
15°	3016	2976	3092	3206	3245	854
25°	2909	2966	3023	2559	2350	1345
35°	2768	2723	1836	1264	1099	1736
45°	2541	1772	896	1142	1376	1953
55°	1954	909	1014	1091	1168	1721
65°	943	589	790	960	983	953
75°	278	314	473	627	669	315
85°	39	134	268	366	371	50
90°	1	100	240	285	263	2
95°	0	93	166	147	139	0
105°	0	84	102	93	92	0
115°	0	69	98	88	84	1
125°	1	55	88	85	81	1
135°	1	39	70	77	74	1
145°	1	24	49	62	66	1
155°	3	15	30	39	47	1
165°	3	8	15	19	26	1
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°	3047.0	3047.0	3047.0	3047.0	3047.0
2.5°	3084.7	3040.2	3045.6	3036.2	3020.0
5°	3080.7	3033.5	3038.9	3022.7	3024.0
7.5°	3069.9	3021.3	3028.1	3025.4	3032.1
10°	3057.8	3006.5	3032.1	3055.1	3075.3
12.5°	3036.2	2990.3	3052.4	3119.8	3161.6
15°	3016.0	2975.5	3091.5	3206.1	3245.3
17.5°	2995.7	2970.1	3140.0	3239.9	3234.5
20°	2970.1	2967.4	3176.5	3142.7	3060.5
22.5°	2941.8	2968.7	3148.1	2901.3	2739.4
25°	2909.4	2966.0	3022.7	2558.7	2349.6
27.5°	2877.0	2953.9	2794.7	2183.7	1977.4
30°	2844.7	2921.5	2487.2	1841.1	1653.6
32.5°	2806.9	2851.4	2152.7	1537.7	1365.0
35°	2767.8	2723.3	1835.7	1263.8	1099.3
37.5°	2727.3	2538.5	1551.1	1023.8	918.5
40°	2678.7	2306.5	1289.5	878.1	906.4
42.5°	2618.1	2044.8	1058.8	921.2	1118.2
45°	2541.2	1772.3	895.6	1142.4	1375.8
47.5°	2444.1	1510.7	855.1	1308.4	1381.2
50°	2326.7	1270.6	940.1	1254.4	1249.0
52.5°	2148.7	1071.0	1026.4	1143.8	1187.0
55°	1954.4	909.1	1014.3	1091.2	1168.1
57.5°	1709.0	799.8	930.7	1080.4	1169.4
60°	1464.8	727.0	859.2	1079.1	1162.7
62.5°	1195.1	660.9	822.8	1053.4	1103.3
65°	942.8	589.4	790.4	960.4	983.3
67.5°	723.0	516.6	733.8	856.5	902.4
70°	544.9	445.1	644.7	776.9	833.6
72.5°	392.5	377.7	553.0	706.8	766.1
75°	277.9	314.3	473.4	627.2	669.0
77.5°	191.5	256.3	406.0	539.5	573.2
80°	125.4	205.0	345.3	464.0	486.9
82.5°	75.5	164.6	299.4	406.0	418.1
85°	39.1	133.5	268.4	365.5	370.9
87.5°	12.1	112.0	250.9	346.6	353.4
90°	1.3	99.8	240.1	284.6	263.0
92.5°	0.0	94.4	207.7	194.2	174.0
95°	0.0	93.1	165.9	147.0	138.9
97.5°	0.0	90.4	136.2	122.7	118.7
100°	0.0	87.7	117.3	107.9	106.6
102.5°	0.0	86.3	106.6	98.5	97.1
105°	0.0	83.6	102.5	93.1	91.7
107.5°	0.0	79.6	99.8	90.4	87.7
110°	0.0	75.5	99.8	89.0	85.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	71.5	99.8	87.7	83.6
115°	0.0	68.8	98.5	87.7	83.6
117.5°	1.3	66.1	97.1	87.7	83.6
120°	0.0	63.4	94.4	87.7	82.3
122.5°	1.3	59.3	91.7	86.3	82.3
125°	1.3	55.3	87.7	85.0	80.9
127.5°	1.3	51.3	83.6	82.3	78.2
130°	1.3	47.2	79.6	80.9	76.9
132.5°	1.3	43.2	74.2	78.2	75.5
135°	1.3	39.1	70.1	76.9	74.2
137.5°	1.3	35.1	64.7	72.8	72.8
140°	1.3	31.0	59.3	70.1	71.5
142.5°	1.3	28.3	54.0	67.4	68.8
145°	1.3	24.3	48.6	62.0	66.1
147.5°	1.3	21.6	43.2	56.7	62.0
150°	1.3	18.9	37.8	51.3	56.7
152.5°	1.3	16.2	33.7	44.5	52.6
155°	2.7	14.8	29.7	39.1	47.2
157.5°	2.7	12.1	24.3	33.7	40.5
160°	2.7	10.8	21.6	28.3	36.4
162.5°	2.7	9.4	17.5	24.3	31.0
165°	2.7	8.1	14.8	18.9	25.6
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)