

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-LD5-55HL-SLW-UNV-L940-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 (P27403)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-55HL-SLW-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

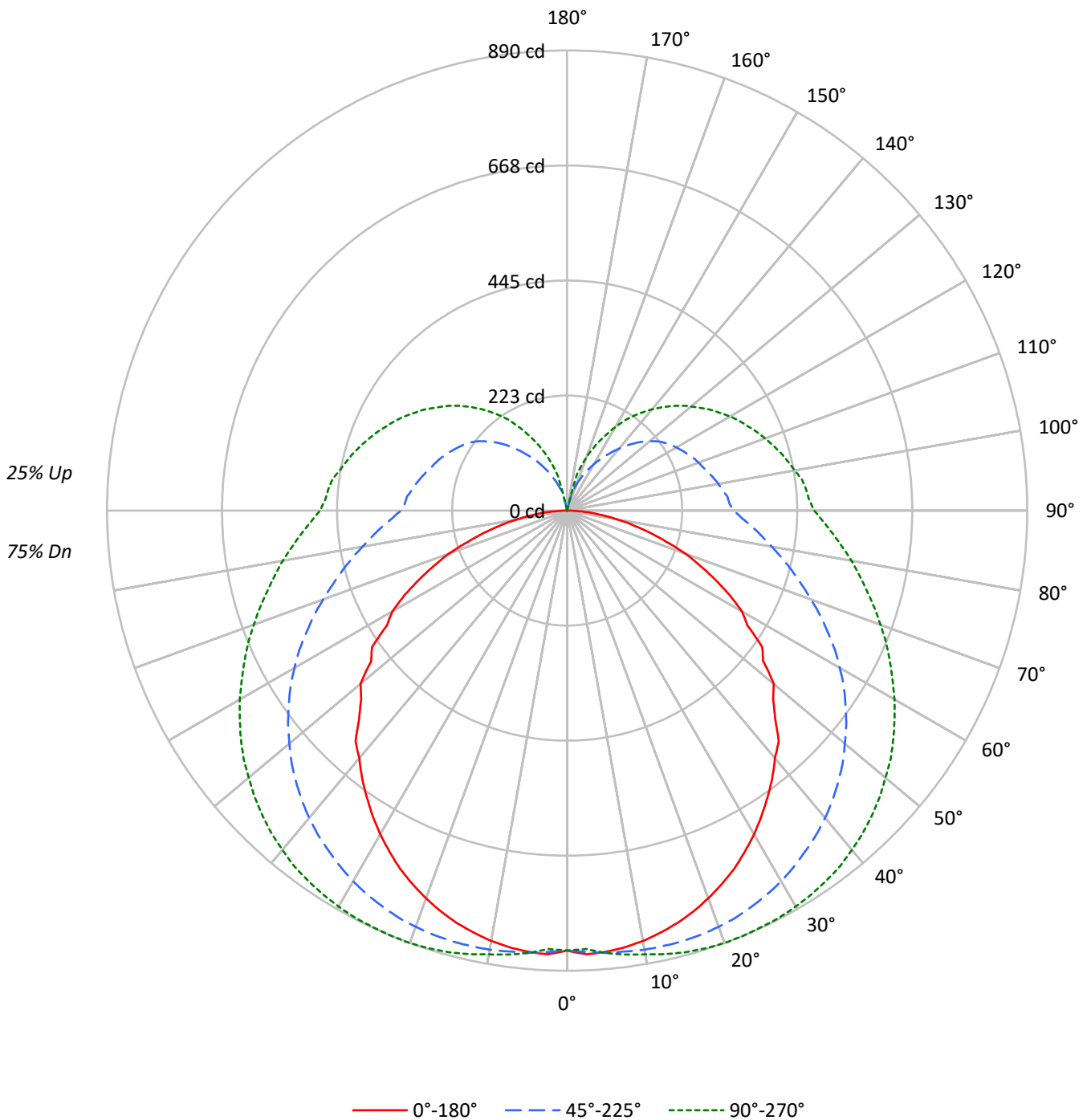
Lumens per Lamp: N/A  
Luminaire Lumens: 4900.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

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	113	113	113	113	107	107	107	107	97	97	97		88	88	88		79	79	79	75
1	100	94	89	84	95	89	84	80	80	76	73		72	69	66		64	62	60	56
2	90	80	72	66	85	76	69	63	68	63	58		61	57	53		55	51	48	44
3	81	69	60	53	76	66	58	51	59	53	47		53	48	43		47	43	39	36
4	74	61	51	44	69	58	49	43	52	45	39		47	41	36		42	37	33	30
5	67	54	44	37	63	51	43	36	46	39	33		42	35	31		37	32	28	25
6	62	48	39	32	58	46	37	31	41	34	29		37	31	27		34	28	24	22
7	57	43	34	28	54	41	33	27	37	30	25		34	28	23		30	25	21	19
8	53	39	31	25	50	37	29	24	34	27	22		31	25	21		28	23	19	17
9	49	36	27	22	47	34	26	21	31	24	20		28	23	18		26	21	17	15
10	46	33	25	20	44	31	24	19	29	22	18		26	21	16		24	19	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6876	6876	6876
5°	6931	6797	6747
10°	6897	6735	6708
15°	6850	6699	6722
20°	6784	6669	6734
25°	6719	6644	6745
30°	6628	6625	6782
35°	6525	6600	6827
40°	6427	6596	6873
45°	6303	6582	6927
50°	6322	6566	6981
55°	6212	6567	7065
60°	5984	6572	7161
65°	5654	6578	7294
70°	5285	6626	7500
75°	4636	6781	7801
80°	3914	7108	8305
85°	2910	7770	9040



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	1.7
10°-20°	242.4	4.9
20°-30°	385.3	7.9
30°-40°	494.5	10.1
40°-50°	558.4	11.4
50°-60°	569.7	11.6
60°-70°	527.8	10.8
70°-80°	446.9	9.1
80°-90°	356.7	7.3
90°-100°	302.9	6.2
100°-110°	269.9	5.5
110°-120°	229.9	4.7
120°-130°	182.6	3.7
130°-140°	129.5	2.6
140°-150°	77.3	1.6
150°-160°	36.0	0.7
160°-170°	8.6	0.2
170°-180°	0.0	0.0
0°-30°	709.5	14.5
0°-40°	1203.9	24.6
0°-60°	2332.0	47.6
0°-90°	3663.4	74.8
90°-120°	802.6	16.4
90°-150°	1192.0	24.3
90°-180°	1237.0	25.2
0°-180°	4900.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	857	850	859	859	859	81
15°	826	832	862	878	884	233
25°	764	790	845	875	889	352
35°	676	725	804	853	874	423
45°	569	646	742	806	834	442
55°	461	538	658	738	770	404
65°	316	420	556	652	688	313
75°	166	294	450	561	600	177
85°	43	189	359	476	516	46
90°	2	154	321	438	478	3
95°	0	145	311	425	464	0
105°	0	134	283	390	428	0
115°	0	124	258	351	386	0
125°	0	107	229	310	340	0
135°	0	79	184	261	286	0
145°	0	52	129	196	223	0
155°	1	32	79	120	148	1
165°	1	17	36	50	70	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°	850.9	850.9	850.9	850.9	850.9
2.5°	859.0	849.7	854.4	853.2	848.6
5°	856.7	849.7	859.0	859.0	859.0
7.5°	852.1	847.4	860.1	864.7	865.9
10°	845.1	845.1	862.4	869.3	871.6
12.5°	835.9	839.4	862.4	872.8	878.5
15°	825.6	832.5	862.4	878.5	884.3
17.5°	812.9	824.4	860.1	879.7	887.7
20°	797.9	815.2	856.7	879.7	890.0
22.5°	781.8	803.7	852.1	877.4	890.0
25°	764.5	789.9	845.1	875.1	888.9
27.5°	743.8	776.1	837.1	871.6	887.7
30°	723.1	759.9	827.9	867.0	884.3
32.5°	700.1	742.7	816.4	860.1	879.7
35°	675.9	725.4	803.7	853.2	873.9
37.5°	651.7	704.7	791.0	844.0	867.0
40°	625.2	683.9	776.1	832.5	856.7
42.5°	605.6	662.1	759.9	821.0	846.3
45°	568.8	645.9	741.5	806.0	833.6
47.5°	540.0	614.9	723.1	791.0	819.8
50°	521.6	589.5	701.2	773.8	803.7
52.5°	477.8	572.3	680.5	756.5	788.7
55°	460.6	537.7	657.5	738.1	770.3
57.5°	413.4	513.5	634.4	717.3	750.7
60°	390.3	480.1	609.1	696.6	731.2
62.5°	354.6	451.4	583.8	673.6	709.3
65°	315.5	420.3	556.1	651.7	688.5
67.5°	278.6	389.2	529.7	628.7	667.8
70°	242.9	356.9	502.0	605.6	644.8
72.5°	201.5	324.7	475.5	583.8	622.9
75°	165.8	293.6	450.2	560.7	599.9
77.5°	131.3	263.7	426.0	540.0	579.2
80°	99.0	234.9	401.8	518.1	558.4
82.5°	69.1	210.7	380.0	497.4	536.6
85°	42.6	188.8	359.2	475.5	515.8
87.5°	19.6	169.3	338.5	454.8	496.3
90°	2.3	154.3	321.2	437.5	477.8
92.5°	1.2	149.7	314.3	429.5	468.6
95°	0.0	145.1	310.9	424.9	464.0
97.5°	0.0	140.5	302.8	418.0	458.3
100°	0.0	138.2	297.1	407.6	446.8
102.5°	0.0	134.7	290.2	398.4	437.5
105°	0.0	133.6	283.2	390.3	428.3
107.5°	0.0	131.3	276.3	380.0	418.0
110°	0.0	129.0	270.6	370.8	407.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	126.7	264.8	361.5	397.2
115°	0.0	124.4	257.9	351.2	385.7
117.5°	0.0	120.9	251.0	340.8	375.4
120°	0.0	116.3	244.1	331.6	363.8
122.5°	0.0	111.7	237.2	320.1	351.2
125°	0.0	107.1	229.1	309.7	339.7
127.5°	0.0	100.2	219.9	298.2	325.9
130°	0.0	93.3	208.4	286.7	313.2
132.5°	1.2	86.4	196.9	274.0	300.5
135°	0.0	79.4	184.2	261.4	285.6
137.5°	0.0	73.7	170.4	247.6	270.6
140°	0.0	66.8	156.6	231.4	255.6
142.5°	0.0	58.7	142.8	214.2	239.5
145°	0.0	51.8	129.0	195.7	223.4
147.5°	1.2	46.1	116.3	176.2	206.1
150°	1.2	41.5	103.6	156.6	186.5
152.5°	1.2	36.8	91.0	138.2	167.0
155°	1.2	32.2	79.4	119.7	148.5
157.5°	1.2	27.6	66.8	101.3	129.0
160°	1.2	24.2	55.3	85.2	110.5
162.5°	1.2	20.7	44.9	66.8	91.0
165°	1.2	17.3	35.7	49.5	70.2
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)