

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-LD5-65HL-SLW-UNV-L950-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-LD5-65HL-SLW-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

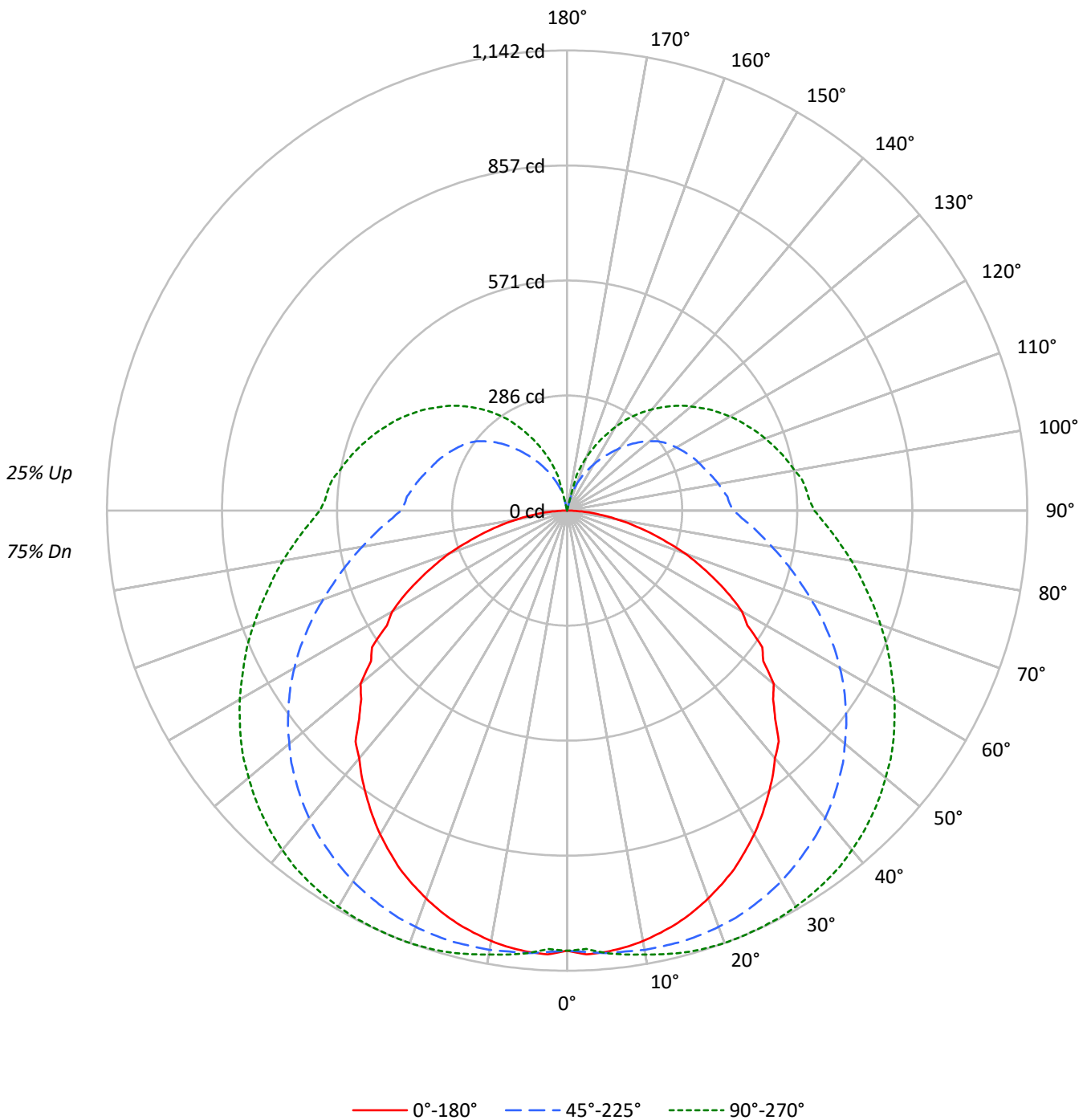
Lumens per Lamp: N/A  
Luminaire Lumens: 6289.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 62  
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°	8825	8825	8825
5°	8895	8723	8658
10°	8852	8645	8610
15°	8791	8598	8628
20°	8708	8560	8643
25°	8624	8528	8657
30°	8507	8503	8704
35°	8375	8470	8763
40°	8249	8465	8820
45°	8090	8447	8890
50°	8113	8427	8960
55°	7972	8428	9068
60°	7681	8435	9191
65°	7256	8443	9362
70°	6784	8505	9626
75°	5950	8702	10012
80°	5024	9125	10660
85°	3737	9974	11604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.0	1.7
10°-20°	311.1	4.9
20°-30°	494.5	7.9
30°-40°	634.6	10.1
40°-50°	716.7	11.4
50°-60°	731.2	11.6
60°-70°	677.4	10.8
70°-80°	573.5	9.1
80°-90°	457.8	7.3
90°-100°	388.7	6.2
100°-110°	346.4	5.5
110°-120°	295.0	4.7
120°-130°	234.3	3.7
130°-140°	166.2	2.6
140°-150°	99.2	1.6
150°-160°	46.3	0.7
160°-170°	11.0	0.2
170°-180°	0.0	0.0
0°-30°	910.6	14.5
0°-40°	1545.2	24.6
0°-60°	2993.1	47.6
0°-90°	4701.9	74.8
90°-120°	1030.1	16.4
90°-150°	1529.9	24.3
90°-180°	1587.0	25.2
0°-180°	6289.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1100	1091	1102	1102	1102	104
15°	1060	1068	1107	1128	1135	299
25°	981	1014	1085	1123	1141	452
35°	868	931	1032	1095	1122	543
45°	730	829	952	1034	1070	567
55°	591	690	844	947	989	519
65°	405	539	714	836	884	402
75°	213	377	578	720	770	227
85°	55	242	461	610	662	60
90°	3	198	412	562	613	4
95°	0	186	399	545	596	0
105°	0	171	364	501	550	0
115°	0	160	331	451	495	0
125°	0	137	294	398	436	0
135°	0	102	236	336	366	0
145°	0	66	166	251	287	1
155°	2	41	102	154	191	1
165°	2	22	46	64	90	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°	1092.1	1092.1	1092.1	1092.1	1092.1
2.5°	1102.4	1090.6	1096.5	1095.1	1089.1
5°	1099.5	1090.6	1102.4	1102.4	1102.4
7.5°	1093.6	1087.7	1103.9	1109.8	1111.3
10°	1084.7	1084.7	1106.9	1115.7	1118.7
12.5°	1072.9	1077.3	1106.9	1120.2	1127.6
15°	1059.6	1068.5	1106.9	1127.6	1135.0
17.5°	1043.3	1058.1	1103.9	1129.0	1139.4
20°	1024.1	1046.3	1099.5	1129.0	1142.3
22.5°	1003.4	1031.5	1093.6	1126.1	1142.3
25°	981.3	1013.8	1084.7	1123.1	1140.9
27.5°	954.7	996.0	1074.4	1118.7	1139.4
30°	928.1	975.4	1062.5	1112.8	1135.0
32.5°	898.5	953.2	1047.8	1103.9	1129.0
35°	867.5	931.0	1031.5	1095.1	1121.7
37.5°	836.4	904.4	1015.3	1083.2	1112.8
40°	802.5	877.8	996.0	1068.5	1099.5
42.5°	777.3	849.7	975.4	1053.7	1086.2
45°	730.0	829.1	951.7	1034.5	1069.9
47.5°	693.1	789.2	928.1	1015.3	1052.2
50°	669.4	756.6	900.0	993.1	1031.5
52.5°	613.3	734.5	873.4	970.9	1012.3
55°	591.1	690.1	843.8	947.3	988.7
57.5°	530.5	659.1	814.3	920.7	963.5
60°	501.0	616.2	781.8	894.1	938.4
62.5°	455.2	579.3	749.3	864.5	910.3
65°	404.9	539.4	713.8	836.4	883.7
67.5°	357.6	499.5	679.8	806.9	857.1
70°	311.8	458.1	644.3	777.3	827.6
72.5°	258.6	416.7	610.3	749.3	799.5
75°	212.8	376.8	577.8	719.7	769.9
77.5°	168.5	338.4	546.8	693.1	743.3
80°	127.1	301.5	515.8	665.0	716.7
82.5°	88.7	270.4	487.7	638.4	688.7
85°	54.7	242.4	461.1	610.3	662.1
87.5°	25.1	217.2	434.5	583.7	636.9
90°	3.0	198.0	412.3	561.6	613.3
92.5°	1.5	192.1	403.4	551.2	601.5
95°	0.0	186.2	399.0	545.3	595.6
97.5°	0.0	180.3	388.7	536.4	588.2
100°	0.0	177.3	381.3	523.1	573.4
102.5°	0.0	172.9	372.4	511.3	561.6
105°	0.0	171.4	363.5	501.0	549.7
107.5°	0.0	168.5	354.7	487.7	536.4
110°	0.0	165.5	347.3	475.9	523.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	162.6	339.9	464.0	509.8
115°	0.0	159.6	331.0	450.7	495.1
117.5°	0.0	155.2	322.2	437.4	481.8
120°	0.0	149.3	313.3	425.6	467.0
122.5°	0.0	143.3	304.4	410.8	450.7
125°	0.0	137.4	294.1	397.5	436.0
127.5°	0.0	128.6	282.3	382.8	418.2
130°	0.0	119.7	267.5	368.0	402.0
132.5°	1.5	110.8	252.7	351.7	385.7
135°	0.0	102.0	236.4	335.5	366.5
137.5°	0.0	94.6	218.7	317.7	347.3
140°	0.0	85.7	201.0	297.0	328.1
142.5°	0.0	75.4	183.2	274.9	307.4
145°	0.0	66.5	165.5	251.2	286.7
147.5°	1.5	59.1	149.3	226.1	264.5
150°	1.5	53.2	133.0	201.0	239.4
152.5°	1.5	47.3	116.7	177.3	214.3
155°	1.5	41.4	102.0	153.7	190.6
157.5°	1.5	35.5	85.7	130.0	165.5
160°	1.5	31.0	70.9	109.4	141.9
162.5°	1.5	26.6	57.6	85.7	116.7
165°	1.5	22.2	45.8	63.5	90.1
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)