

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-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-LD5-65HL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

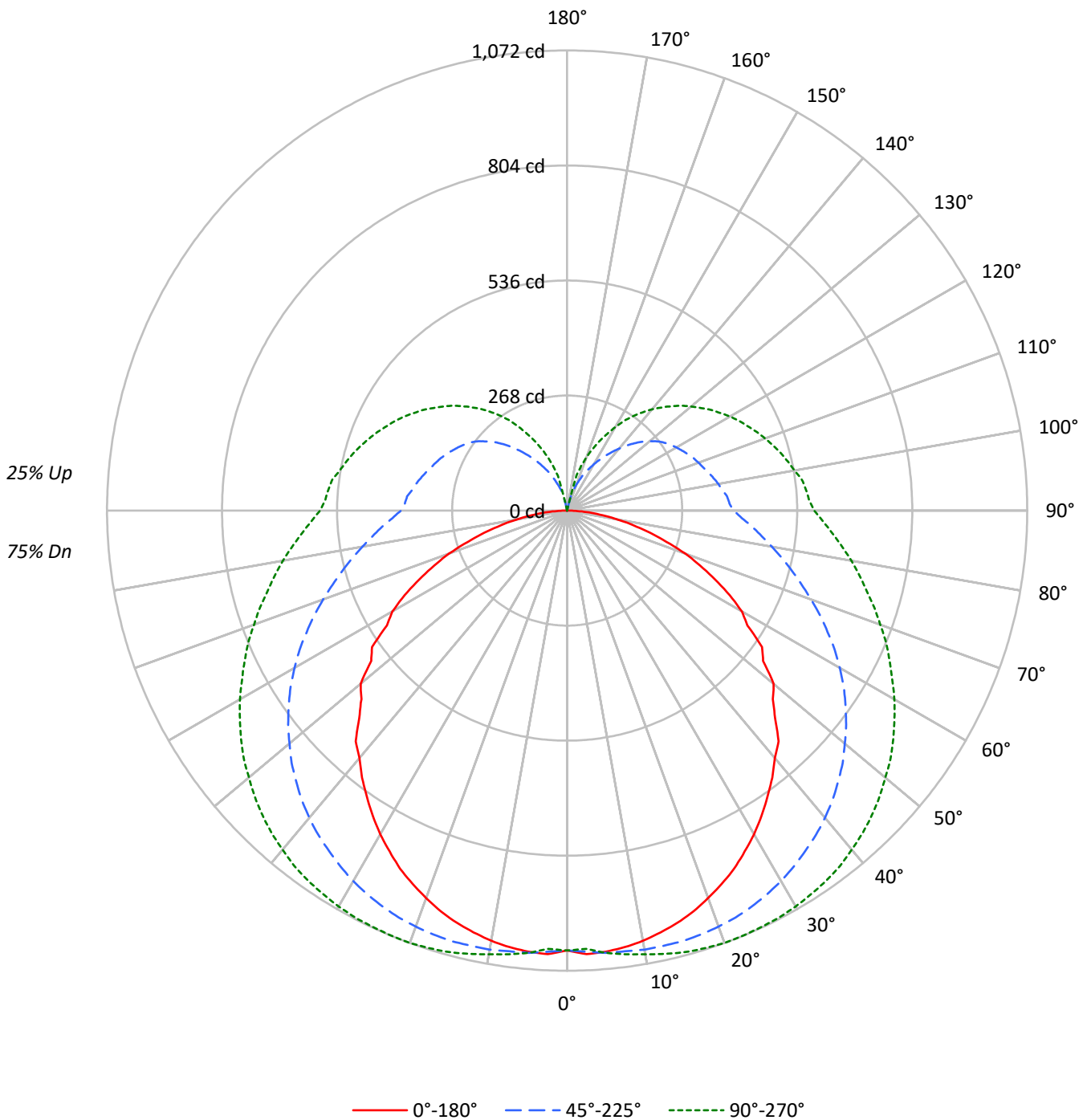
Lumens per Lamp: N/A
Luminaire Lumens: 5900.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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°	8280	8280	8280
5°	8345	8184	8123
10°	8304	8110	8077
15°	8248	8066	8094
20°	8170	8030	8108
25°	8091	8001	8122
30°	7981	7977	8166
35°	7856	7947	8220
40°	7738	7941	8275
45°	7590	7925	8341
50°	7612	7905	8406
55°	7480	7906	8507
60°	7206	7913	8623
65°	6808	7920	8783
70°	6365	7979	9031
75°	5581	8165	9393
80°	4712	8560	10001
85°	3505	9357	10885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.7
10°-20°	291.9	4.9
20°-30°	463.9	7.9
30°-40°	595.4	10.1
40°-50°	672.3	11.4
50°-60°	686.0	11.6
60°-70°	635.5	10.8
70°-80°	538.1	9.1
80°-90°	429.5	7.3
90°-100°	364.7	6.2
100°-110°	324.9	5.5
110°-120°	276.8	4.7
120°-130°	219.8	3.7
130°-140°	155.9	2.6
140°-150°	93.1	1.6
150°-160°	43.4	0.7
160°-170°	10.3	0.2
170°-180°	0.0	0.0
0°-30°	854.2	14.5
0°-40°	1449.6	24.6
0°-60°	2807.9	47.6
0°-90°	4411.0	74.8
90°-120°	966.4	16.4
90°-150°	1435.3	24.3
90°-180°	1489.0	25.2
0°-180°	5900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1025	1025	1025	1025	1025	
5°	1032	1023	1034	1034	1034	98
15°	994	1002	1038	1058	1065	280
25°	921	951	1018	1054	1070	424
35°	814	873	968	1027	1052	509
45°	685	778	893	970	1004	532
55°	555	648	792	889	928	487
65°	380	506	670	785	829	377
75°	200	354	542	675	722	213
85°	51	227	433	573	621	56
90°	3	186	387	527	575	4
95°	0	175	374	512	559	0
105°	0	161	341	470	516	0
115°	0	150	311	423	464	0
125°	0	129	276	373	409	0
135°	0	96	222	315	344	0
145°	0	62	155	236	269	1
155°	1	39	96	144	179	1
165°	1	21	43	60	85	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°	1024.6	1024.6	1024.6	1024.6	1024.6
2.5°	1034.3	1023.2	1028.7	1027.3	1021.8
5°	1031.5	1023.2	1034.3	1034.3	1034.3
7.5°	1025.9	1020.4	1035.6	1041.2	1042.6
10°	1017.6	1017.6	1038.4	1046.7	1049.5
12.5°	1006.5	1010.7	1038.4	1050.9	1057.8
15°	994.1	1002.4	1038.4	1057.8	1064.8
17.5°	978.8	992.7	1035.6	1059.2	1068.9
20°	960.8	981.6	1031.5	1059.2	1071.7
22.5°	941.4	967.7	1025.9	1056.4	1071.7
25°	920.6	951.1	1017.6	1053.7	1070.3
27.5°	895.6	934.4	1007.9	1049.5	1068.9
30°	870.7	915.0	996.8	1044.0	1064.8
32.5°	842.9	894.2	983.0	1035.6	1059.2
35°	813.8	873.4	967.7	1027.3	1052.3
37.5°	784.7	848.5	952.5	1016.2	1044.0
40°	752.8	823.5	934.4	1002.4	1031.5
42.5°	729.2	797.2	915.0	988.5	1019.0
45°	684.9	777.8	892.8	970.5	1003.8
47.5°	650.2	740.3	870.7	952.5	987.1
50°	628.0	709.8	844.3	931.7	967.7
52.5°	575.4	689.0	819.4	910.9	949.7
55°	554.6	647.5	791.6	888.7	927.5
57.5°	497.7	618.3	763.9	863.7	903.9
60°	470.0	578.1	733.4	838.8	880.4
62.5°	427.0	543.5	702.9	811.0	854.0
65°	379.9	506.0	669.6	784.7	829.1
67.5°	335.5	468.6	637.7	757.0	804.1
70°	292.5	429.8	604.5	729.2	776.4
72.5°	242.6	391.0	572.6	702.9	750.0
75°	199.6	353.5	542.1	675.2	722.3
77.5°	158.1	317.5	513.0	650.2	697.4
80°	119.2	282.8	483.9	623.9	672.4
82.5°	83.2	253.7	457.5	598.9	646.1
85°	51.3	227.4	432.6	572.6	621.1
87.5°	23.6	203.8	407.6	547.6	597.5
90°	2.8	185.8	386.8	526.8	575.4
92.5°	1.4	180.2	378.5	517.1	564.3
95°	0.0	174.7	374.3	511.6	558.7
97.5°	0.0	169.1	364.6	503.3	551.8
100°	0.0	166.4	357.7	490.8	537.9
102.5°	0.0	162.2	349.4	479.7	526.8
105°	0.0	160.8	341.1	470.0	515.7
107.5°	0.0	158.1	332.7	457.5	503.3
110°	0.0	155.3	325.8	446.4	490.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	152.5	318.9	435.3	478.3
115°	0.0	149.7	310.6	422.9	464.4
117.5°	0.0	145.6	302.2	410.4	452.0
120°	0.0	140.0	293.9	399.3	438.1
122.5°	0.0	134.5	285.6	385.4	422.9
125°	0.0	128.9	275.9	372.9	409.0
127.5°	0.0	120.6	264.8	359.1	392.4
130°	0.0	112.3	250.9	345.2	377.1
132.5°	1.4	104.0	237.1	330.0	361.9
135°	0.0	95.7	221.8	314.7	343.8
137.5°	0.0	88.7	205.2	298.1	325.8
140°	0.0	80.4	188.6	278.7	307.8
142.5°	0.0	70.7	171.9	257.9	288.4
145°	0.0	62.4	155.3	235.7	269.0
147.5°	1.4	55.5	140.0	212.1	248.2
150°	1.4	49.9	124.8	188.6	224.6
152.5°	1.4	44.4	109.5	166.4	201.0
155°	1.4	38.8	95.7	144.2	178.8
157.5°	1.4	33.3	80.4	122.0	155.3
160°	1.4	29.1	66.5	102.6	133.1
162.5°	1.4	25.0	54.1	80.4	109.5
165°	1.4	20.8	43.0	59.6	84.6
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)