

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213509

Luminaire Tested: 4SNLED-LD5-65HL-SLW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-65HL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

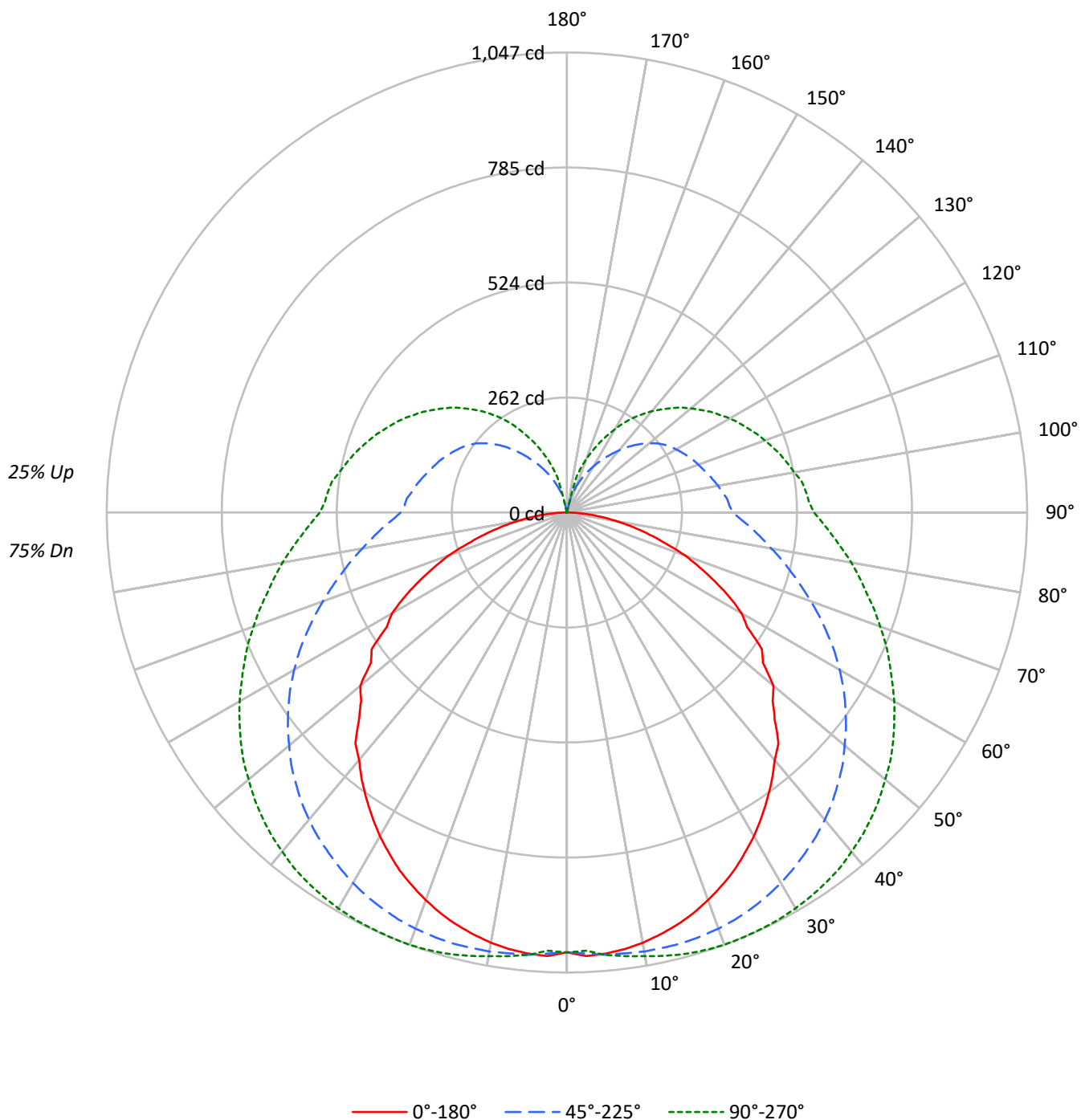
Lumens per Lamp: N/A
Luminaire Lumens: 5764.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8088	8088	8088
5°	8152	7995	7936
10°	8113	7923	7891
15°	8057	7880	7907
20°	7981	7845	7922
25°	7904	7817	7934
30°	7796	7793	7977
35°	7676	7763	8031
40°	7561	7758	8084
45°	7415	7743	8148
50°	7437	7724	8212
55°	7307	7724	8311
60°	7041	7730	8424
65°	6650	7738	8581
70°	6219	7794	8822
75°	5453	7976	9177
80°	4605	8362	9770
85°	3423	9141	10634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 12101 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	1.7
10°-20°	285.2	4.9
20°-30°	453.2	7.9
30°-40°	581.6	10.1
40°-50°	656.8	11.4
50°-60°	670.2	11.6
60°-70°	620.9	10.8
70°-80°	525.7	9.1
80°-90°	419.6	7.3
90°-100°	356.3	6.2
100°-110°	317.4	5.5
110°-120°	270.4	4.7
120°-130°	214.8	3.7
130°-140°	152.4	2.6
140°-150°	91.0	1.6
150°-160°	42.4	0.7
160°-170°	10.1	0.2
170°-180°	0.0	0.0
0°-30°	834.6	14.5
0°-40°	1416.2	24.6
0°-60°	2743.2	47.6
0°-90°	4309.4	74.8
90°-120°	944.1	16.4
90°-150°	1402.2	24.3
90°-180°	1455.0	25.2
0°-180°	5764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1008	1000	1010	1010	1010	96
15°	971	979	1014	1033	1040	274
25°	899	929	994	1029	1046	414
35°	795	853	945	1004	1028	498
45°	669	760	872	948	981	520
55°	542	632	773	868	906	476
65°	371	494	654	767	810	368
75°	195	345	530	660	706	208
85°	50	222	423	559	607	55
90°	3	182	378	515	562	4
95°	0	171	366	500	546	0
105°	0	157	333	459	504	0
115°	0	146	303	413	454	0
125°	0	126	270	364	400	0
135°	0	94	217	308	336	0
145°	0	61	152	230	263	1
155°	1	38	94	141	175	1
165°	1	20	42	58	83	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°	1000.9	1000.9	1000.9	1000.9	1000.9
2.5°	1010.4	999.6	1005.0	1003.6	998.2
5°	1007.7	999.6	1010.4	1010.4	1010.4
7.5°	1002.3	996.9	1011.8	1017.2	1018.5
10°	994.2	994.2	1014.5	1022.6	1025.3
12.5°	983.3	987.4	1014.5	1026.7	1033.4
15°	971.1	979.3	1014.5	1033.4	1040.2
17.5°	956.2	969.8	1011.8	1034.8	1044.3
20°	938.6	958.9	1007.7	1034.8	1047.0
22.5°	919.7	945.4	1002.3	1032.1	1047.0
25°	899.4	929.1	994.2	1029.4	1045.6
27.5°	875.0	912.9	984.7	1025.3	1044.3
30°	850.6	893.9	973.8	1019.9	1040.2
32.5°	823.5	873.6	960.3	1011.8	1034.8
35°	795.1	853.3	945.4	1003.6	1028.0
37.5°	766.6	828.9	930.5	992.8	1019.9
40°	735.5	804.5	912.9	979.3	1007.7
42.5°	712.4	778.8	893.9	965.7	995.5
45°	669.1	759.8	872.3	948.1	980.6
47.5°	635.2	723.3	850.6	930.5	964.4
50°	613.6	693.5	824.9	910.2	945.4
52.5°	562.1	673.2	800.5	889.9	927.8
55°	541.8	632.5	773.4	868.2	906.1
57.5°	486.2	604.1	746.3	843.8	883.1
60°	459.2	564.8	716.5	819.4	860.1
62.5°	417.2	530.9	686.7	792.4	834.3
65°	371.1	494.4	654.2	766.6	810.0
67.5°	327.8	457.8	623.0	739.5	785.6
70°	285.8	419.9	590.5	712.4	758.5
72.5°	237.0	382.0	559.4	686.7	732.8
75°	195.0	345.4	529.6	659.6	705.7
77.5°	154.4	310.2	501.1	635.2	681.3
80°	116.5	276.3	472.7	609.5	656.9
82.5°	81.3	247.9	447.0	585.1	631.2
85°	50.1	222.1	422.6	559.4	606.8
87.5°	23.0	199.1	398.2	535.0	583.8
90°	2.7	181.5	377.9	514.7	562.1
92.5°	1.4	176.1	369.8	505.2	551.3
95°	0.0	170.7	365.7	499.8	545.8
97.5°	0.0	165.2	356.2	491.7	539.1
100°	0.0	162.5	349.4	479.5	525.5
102.5°	0.0	158.5	341.3	468.6	514.7
105°	0.0	157.1	333.2	459.2	503.9
107.5°	0.0	154.4	325.1	447.0	491.7
110°	0.0	151.7	318.3	436.1	479.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	149.0	311.5	425.3	467.3
115°	0.0	146.3	303.4	413.1	453.7
117.5°	0.0	142.2	295.3	400.9	441.5
120°	0.0	136.8	287.1	390.1	428.0
122.5°	0.0	131.4	279.0	376.5	413.1
125°	0.0	126.0	269.5	364.3	399.6
127.5°	0.0	117.8	258.7	350.8	383.3
130°	0.0	109.7	245.2	337.3	368.4
132.5°	1.4	101.6	231.6	322.4	353.5
135°	0.0	93.5	216.7	307.5	335.9
137.5°	0.0	86.7	200.5	291.2	318.3
140°	0.0	78.6	184.2	272.2	300.7
142.5°	0.0	69.1	168.0	251.9	281.7
145°	0.0	61.0	151.7	230.3	262.8
147.5°	1.4	54.2	136.8	207.2	242.4
150°	1.4	48.8	121.9	184.2	219.4
152.5°	1.4	43.3	107.0	162.5	196.4
155°	1.4	37.9	93.5	140.9	174.7
157.5°	1.4	32.5	78.6	119.2	151.7
160°	1.4	28.4	65.0	100.2	130.0
162.5°	1.4	24.4	52.8	78.6	107.0
165°	1.4	20.3	42.0	58.2	82.6
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)