

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: P1213721

Luminaire Tested: 4SNLED-LD5-20SL-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27410)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-20SL-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
OPEN LED STIP
Light Source: -
Ballast/Driver: -

Summary

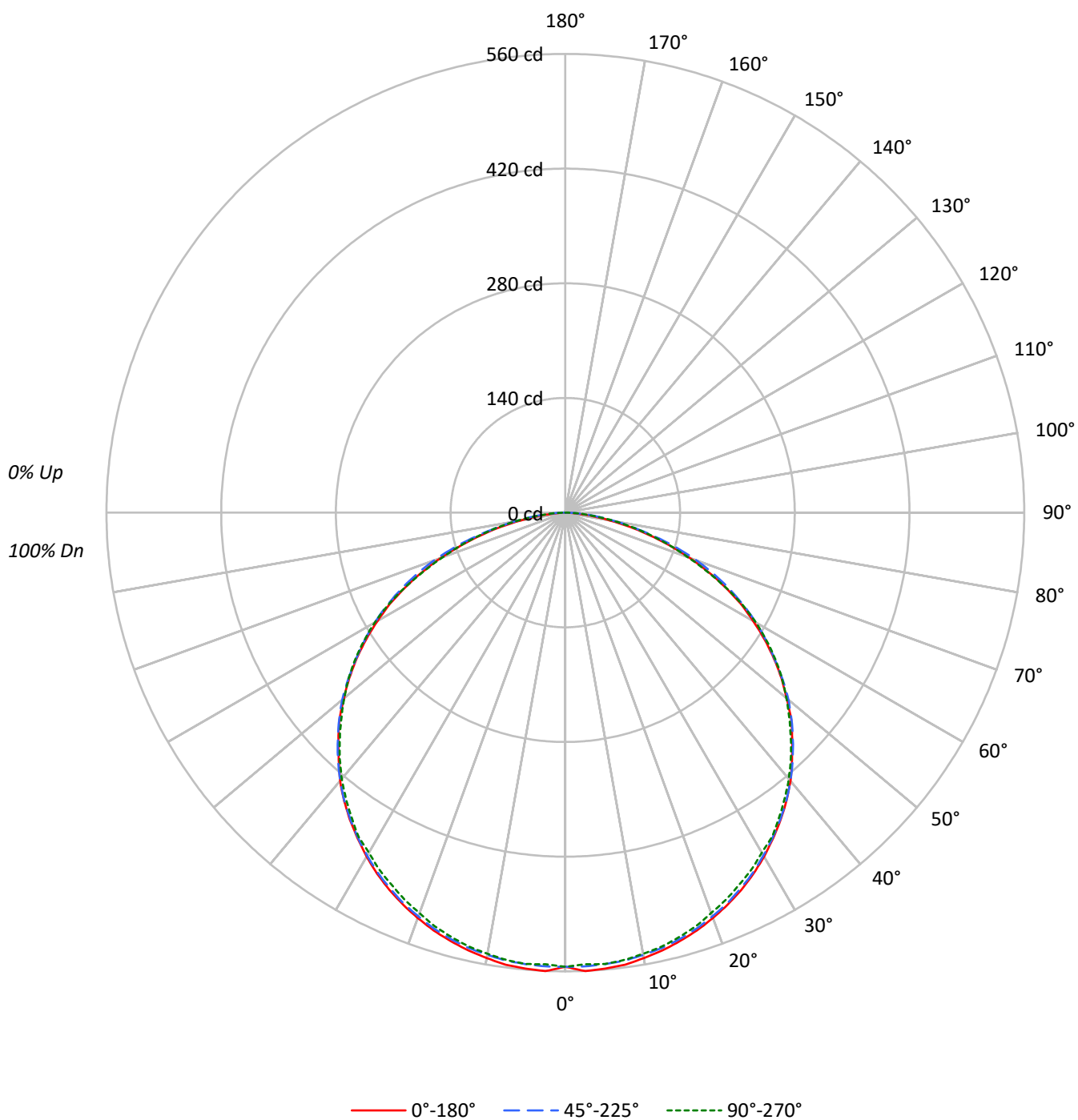
Lumens per Lamp: N/A
Luminaire Lumens: 1663.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.29 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 13
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

TEST NUMBER: P1213721

CATALOG NUMBER: 4SNLED-LD5-20SL-UNV-L940-CD1-U

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83		
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69		
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58		
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37		
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33		
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4480	4480	4480
5°	4521	4378	4343
10°	4506	4282	4209
15°	4492	4186	4077
20°	4478	4083	3937
25°	4465	3980	3805
30°	4444	3869	3677
35°	4422	3754	3552
40°	4396	3631	3404
45°	4340	3486	3233
50°	4274	3328	3060
55°	4192	3115	2874
60°	4057	2899	2630
65°	3858	2619	2287
70°	3516	2251	1854
75°	2986	1717	1425
80°	2233	1130	934
85°	1155	552	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4340 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	3.2
10°-20°	151.7	9.1
20°-30°	232.3	14.0
30°-40°	284.6	17.1
40°-50°	301.0	18.1
50°-60°	277.8	16.7
60°-70°	214.4	12.9
70°-80°	119.0	7.2
80°-90°	29.5	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	436.6	26.3
0°-40°	721.2	43.4
0°-60°	1300.0	78.2
0°-90°	1663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	559	552	553	552	553	53
15°	541	535	539	537	536	153
25°	508	502	506	502	502	234
35°	458	453	457	452	455	287
45°	392	388	393	389	389	302
55°	311	308	312	312	313	277
65°	215	213	221	220	216	212
75°	107	113	114	114	110	113
85°	17	25	26	26	24	23
90°	0	0	0	0	0	

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CATALOG NUMBER: 4SNLED-LD5-20SL-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	554.4	554.4	554.4	554.4	554.4
2.5°	560.2	553.0	554.4	553.5	551.9
5°	558.8	551.6	553.3	551.9	553.0
7.5°	556.6	548.8	551.6	549.7	550.8
10°	552.2	545.5	548.3	546.1	546.9
12.5°	547.4	540.5	544.4	541.6	542.7
15°	541.4	535.0	538.9	536.9	536.4
17.5°	534.7	528.6	532.5	530.3	529.5
20°	526.7	520.9	524.5	521.2	520.3
22.5°	517.8	512.0	516.2	511.5	511.7
25°	508.1	502.1	506.2	501.8	501.5
27.5°	497.1	491.3	495.7	491.0	491.5
30°	484.9	479.1	483.5	478.8	479.4
32.5°	471.6	466.9	470.8	466.4	469.4
35°	458.1	453.1	457.2	452.2	454.7
37.5°	443.4	438.7	443.1	437.6	439.8
40°	427.6	423.5	427.3	422.3	424.3
42.5°	409.3	406.8	410.7	405.7	407.4
45°	391.6	388.0	392.7	388.6	389.1
47.5°	373.9	370.0	374.5	370.9	370.6
50°	352.6	351.2	355.4	352.6	352.3
52.5°	332.4	329.6	334.1	332.7	333.5
55°	310.8	308.3	311.9	311.6	313.3
57.5°	288.4	285.9	290.6	290.1	291.4
60°	264.6	262.7	268.7	267.4	268.5
62.5°	241.3	237.7	245.5	244.4	243.8
65°	215.3	213.1	221.4	220.0	215.9
67.5°	188.5	187.6	196.2	193.5	186.5
70°	161.6	162.2	170.5	165.2	159.4
72.5°	133.4	137.6	142.5	138.7	134.5
75°	106.8	113.2	114.0	113.8	109.6
77.5°	80.8	88.8	86.9	88.8	85.5
80°	56.5	65.3	63.9	65.6	62.8
82.5°	34.9	42.9	43.2	44.3	41.8
85°	16.9	24.9	25.5	25.7	23.8
87.5°	3.6	11.6	11.9	11.1	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)