

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-LD5-18SL-SLC-UNV-L830-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-18SL-SLC-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

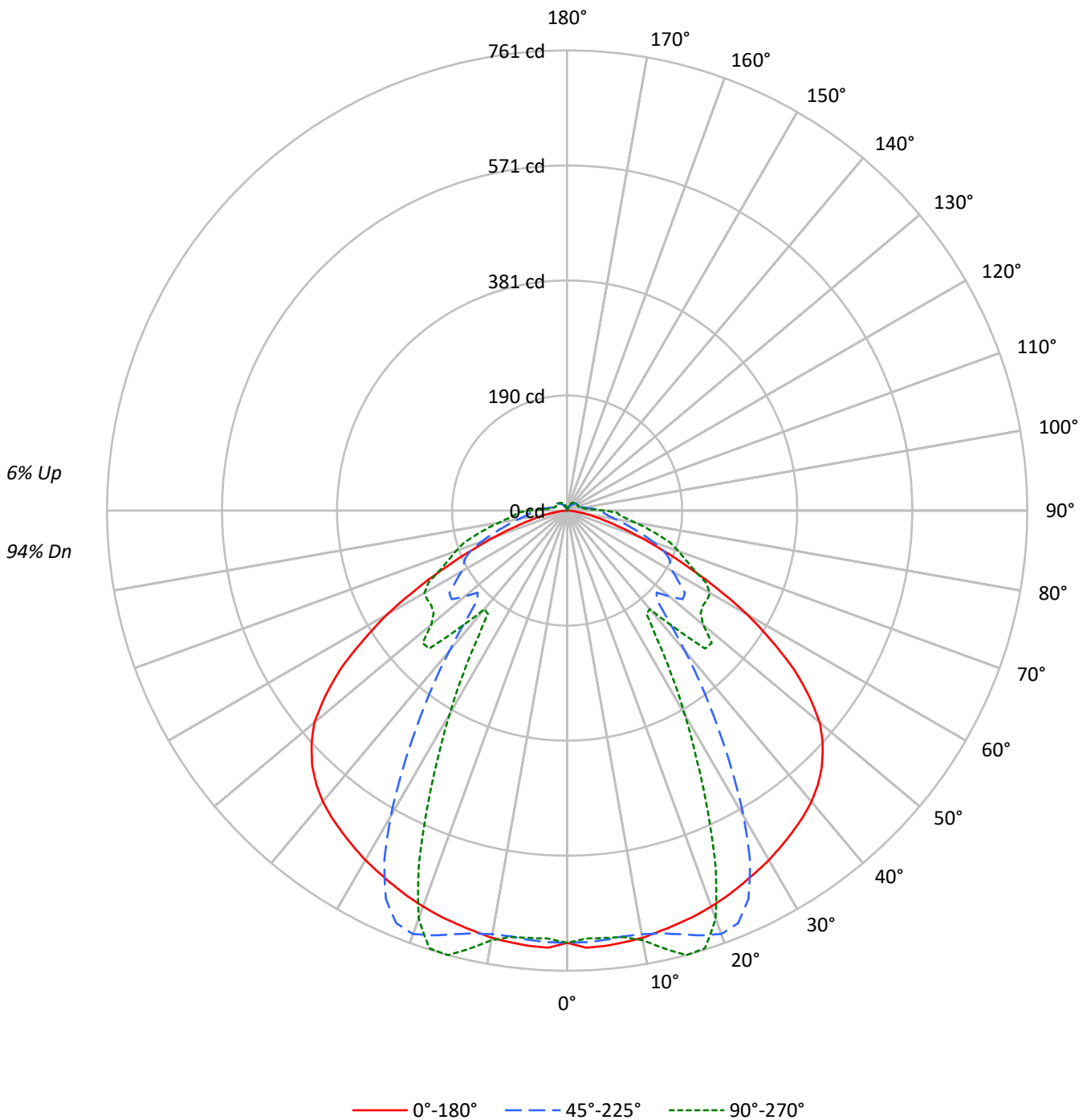
Lumens per Lamp: N/A
Luminaire Lumens: 1836.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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: 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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5776	5776	5776
5°	5846	5640	5572
10°	5854	5555	5552
15°	5870	5633	5786
20°	5924	5801	5432
25°	5998	5574	4183
30°	6116	4669	2975
35°	6267	3536	2015
40°	6460	2571	1706
45°	6606	1865	2681
50°	6615	2065	2545
55°	6184	2376	2513
60°	5268	2174	2671
65°	3964	2193	2444
70°	2781	1996	2274
75°	1823	1673	2040
80°	1162	1433	1699
85°	629	1363	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.7
10°-20°	205.3	11.2
20°-30°	298.3	16.2
30°-40°	285.0	15.5
40°-50°	260.7	14.2
50°-60°	240.7	13.1
60°-70°	191.2	10.4
70°-80°	118.0	6.4
80°-90°	64.3	3.5
90°-100°	32.5	1.8
100°-110°	20.4	1.1
110°-120°	17.3	0.9
120°-130°	14.1	0.8
130°-140°	10.1	0.6
140°-150°	6.2	0.3
150°-160°	3.0	0.2
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	571.7	31.1
0°-40°	856.7	46.7
0°-60°	1358.1	74.0
0°-90°	1731.6	94.3
90°-120°	70.2	3.8
90°-150°	100.7	5.5
90°-180°	104.0	5.7
0°-180°	1836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	723	712	713	709	709	69
15°	708	698	725	752	761	200
25°	682	696	709	600	551	315
35°	649	639	431	296	258	407
45°	596	416	210	268	323	458
55°	458	213	238	256	274	404
65°	221	138	185	225	231	224
75°	65	74	111	147	157	74
85°	9	31	63	86	87	12
90°	0	23	56	67	62	0
95°	0	22	39	34	33	0
105°	0	20	24	22	22	0
115°	0	16	23	21	20	0
125°	0	13	21	20	19	0
135°	0	9	16	18	17	0
145°	0	6	11	15	16	0
155°	1	4	7	9	11	0
165°	1	2	4	4	6	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°	714.7	714.7	714.7	714.7	714.7
2.5°	723.6	713.2	714.4	712.2	708.4
5°	722.6	711.6	712.8	709.0	709.4
7.5°	720.1	708.7	710.3	709.7	711.3
10°	717.3	705.2	711.3	716.6	721.4
12.5°	712.2	701.4	716.0	731.8	741.6
15°	707.5	698.0	725.2	752.1	761.2
17.5°	702.7	696.7	736.6	760.0	758.7
20°	696.7	696.1	745.1	737.2	717.9
22.5°	690.1	696.4	738.5	680.6	642.6
25°	682.5	695.8	709.0	600.2	551.2
27.5°	674.9	692.9	655.6	512.2	463.8
30°	667.3	685.3	583.4	431.9	387.9
32.5°	658.4	668.9	505.0	360.7	320.2
35°	649.2	638.8	430.6	296.5	257.9
37.5°	639.8	595.5	363.9	240.1	215.5
40°	628.4	541.0	302.5	206.0	212.6
42.5°	614.1	479.7	248.4	216.1	262.3
45°	596.1	415.7	210.1	268.0	322.7
47.5°	573.3	354.4	200.6	306.9	324.0
50°	545.8	298.0	220.5	294.2	293.0
52.5°	504.0	251.2	240.8	268.3	278.4
55°	458.5	213.3	237.9	256.0	274.0
57.5°	400.9	187.6	218.3	253.4	274.3
60°	343.6	170.5	201.5	253.1	272.7
62.5°	280.3	155.0	193.0	247.1	258.8
65°	221.2	138.3	185.4	225.3	230.7
67.5°	169.6	121.2	172.1	200.9	211.7
70°	127.8	104.4	151.2	182.2	195.5
72.5°	92.1	88.6	129.7	165.8	179.7
75°	65.2	73.7	111.1	147.1	156.9
77.5°	44.9	60.1	95.2	126.6	134.5
80°	29.4	48.1	81.0	108.8	114.2
82.5°	17.7	38.6	70.2	95.2	98.1
85°	9.2	31.3	63.0	85.7	87.0
87.5°	2.8	26.3	58.8	81.3	82.9
90°	0.3	23.4	56.3	66.8	61.7
92.5°	0.0	22.1	48.7	45.6	40.8
95°	0.0	21.8	38.9	34.5	32.6
97.5°	0.0	21.2	32.0	28.8	27.8
100°	0.0	20.6	27.5	25.3	25.0
102.5°	0.0	20.2	25.0	23.1	22.8
105°	0.0	19.6	24.0	21.8	21.5
107.5°	0.0	18.7	23.4	21.2	20.6
110°	0.0	17.7	23.4	20.9	19.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	16.8	23.4	20.6	19.6
115°	0.0	16.1	23.1	20.6	19.6
117.5°	0.3	15.5	22.8	20.6	19.6
120°	0.0	14.9	22.1	20.6	19.3
122.5°	0.3	13.9	21.5	20.2	19.3
125°	0.3	13.0	20.6	19.9	19.0
127.5°	0.3	12.0	19.6	19.3	18.4
130°	0.3	11.1	18.7	19.0	18.0
132.5°	0.3	10.1	17.4	18.4	17.7
135°	0.3	9.2	16.5	18.0	17.4
137.5°	0.3	8.2	15.2	17.1	17.1
140°	0.3	7.3	13.9	16.5	16.8
142.5°	0.3	6.6	12.7	15.8	16.1
145°	0.3	5.7	11.4	14.6	15.5
147.5°	0.3	5.1	10.1	13.3	14.6
150°	0.3	4.4	8.9	12.0	13.3
152.5°	0.3	3.8	7.9	10.4	12.3
155°	0.6	3.5	7.0	9.2	11.1
157.5°	0.6	2.8	5.7	7.9	9.5
160°	0.6	2.5	5.1	6.6	8.5
162.5°	0.6	2.2	4.1	5.7	7.3
165°	0.6	1.9	3.5	4.4	6.0
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)