

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-LD5-26SL-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-26SL-SLN-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

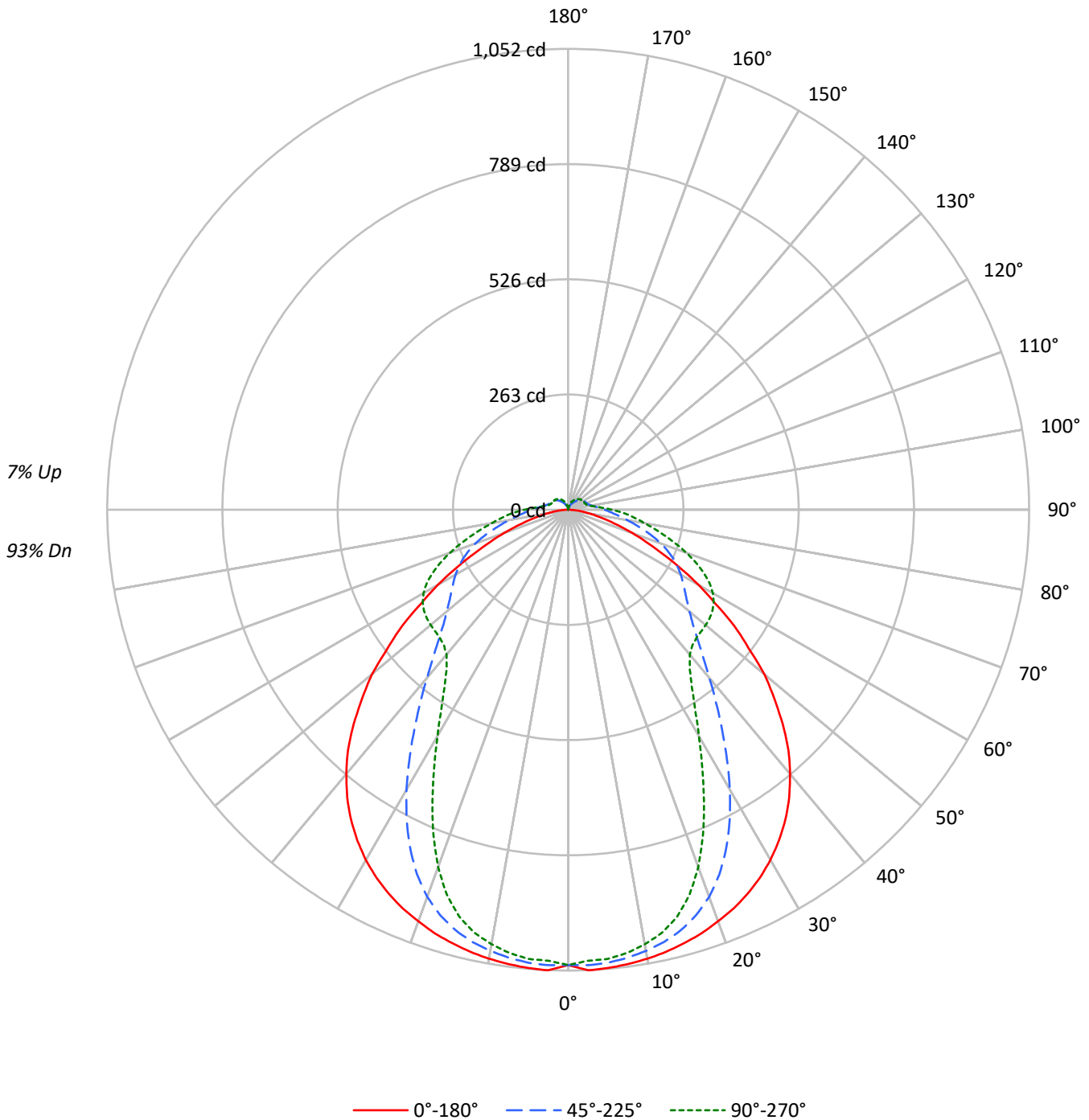
Lumens per Lamp: N/A
Luminaire Lumens: 2614.0 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8399	8399	8399
5°	8497	8214	8086
10°	8494	7987	7753
15°	8497	7719	7310
20°	8500	7322	6566
25°	8504	6709	5560
30°	8463	5904	4573
35°	8343	5022	3832
40°	8098	4254	3465
45°	7670	3697	3438
50°	7084	3379	3559
55°	6239	3248	3683
60°	5264	3202	3735
65°	4235	3131	3618
70°	3401	2970	3336
75°	2564	2687	2961
80°	1894	2413	2634
85°	1264	2278	2422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.8
10°-20°	278.0	10.6
20°-30°	388.5	14.9
30°-40°	403.0	15.4
40°-50°	372.3	14.2
50°-60°	332.4	12.7
60°-70°	269.4	10.3
70°-80°	179.2	6.9
80°-90°	102.6	3.9
90°-100°	56.8	2.2
100°-110°	38.5	1.5
110°-120°	32.0	1.2
120°-130°	26.0	1.0
130°-140°	18.8	0.7
140°-150°	11.3	0.4
150°-160°	5.4	0.2
160°-170°	1.4	0.1
170°-180°	0.0	0.0
0°-30°	764.8	29.3
0°-40°	1167.9	44.7
0°-60°	1872.6	71.6
0°-90°	2423.8	92.7
90°-120°	127.3	4.9
90°-150°	183.3	7.0
90°-180°	190.0	7.3
0°-180°	2614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1050	1033	1038	1031	1030	100
15°	1024	1002	994	971	962	289
25°	968	925	853	764	733	446
35°	864	769	612	514	491	539
45°	692	548	416	402	414	532
55°	463	350	325	378	402	411
65°	236	211	265	324	342	239
75°	92	115	178	219	228	101
85°	18	53	105	135	138	21
90°	1	38	83	100	99	1
95°	1	32	66	70	68	1
105°	0	28	47	46	44	1
115°	0	25	42	42	40	0
125°	0	21	37	39	38	1
135°	1	16	29	34	34	1
145°	1	10	20	27	28	1
155°	1	6	13	17	20	0
165°	1	4	6	8	11	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°	1039.4	1039.4	1039.4	1039.4	1039.4
2.5°	1052.5	1035.4	1040.8	1036.3	1030.4
5°	1050.3	1032.7	1038.1	1030.8	1029.5
7.5°	1046.2	1028.6	1031.8	1023.2	1020.9
10°	1040.8	1022.3	1022.7	1010.5	1007.4
12.5°	1033.6	1013.2	1010.5	993.8	989.3
15°	1024.1	1002.4	993.8	971.2	961.7
17.5°	1013.7	988.4	970.8	936.0	921.1
20°	999.7	971.2	940.5	887.6	867.8
22.5°	985.7	950.4	901.2	830.7	804.1
25°	967.6	924.7	853.3	763.9	732.7
27.5°	947.3	894.4	798.2	695.2	661.8
30°	923.3	857.8	737.7	627.9	596.3
32.5°	895.3	816.7	674.0	567.4	538.0
35°	864.2	769.3	611.6	513.6	490.6
37.5°	828.5	717.3	553.8	470.3	455.3
40°	787.8	660.9	500.5	436.8	431.9
42.5°	744.0	605.8	454.9	415.1	419.7
45°	692.1	548.4	416.5	401.6	413.8
47.5°	637.4	492.4	385.3	393.9	411.5
50°	584.5	440.4	360.9	388.9	409.7
52.5°	519.0	393.9	341.5	384.4	407.0
55°	462.6	349.6	325.2	378.1	401.6
57.5°	397.5	309.9	310.8	370.0	393.5
60°	343.3	273.7	296.8	358.7	381.3
62.5°	288.2	241.2	281.4	343.8	364.1
65°	236.3	211.4	264.7	324.3	341.5
67.5°	192.9	184.3	245.7	300.9	315.3
70°	156.3	159.5	225.0	274.7	286.8
72.5°	120.2	136.4	202.4	246.6	257.0
75°	91.7	114.7	178.4	218.6	227.7
77.5°	67.8	95.8	156.8	193.3	201.0
80°	47.9	79.1	136.4	171.2	177.1
82.5°	32.1	65.0	119.7	151.3	156.8
85°	18.5	53.3	105.3	134.6	138.2
87.5°	7.7	44.3	93.5	117.4	119.3
90°	0.9	37.5	83.1	100.3	99.4
92.5°	0.9	33.9	74.1	84.0	81.8
95°	0.9	31.6	66.0	70.5	68.2
97.5°	0.9	30.3	58.7	60.5	58.3
100°	0.5	29.4	53.8	53.8	51.5
102.5°	0.5	28.5	50.1	48.8	47.0
105°	0.5	27.6	47.4	46.1	43.8
107.5°	0.5	27.1	45.6	44.3	42.0
110°	0.5	26.2	44.3	42.9	41.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	25.7	43.4	42.5	40.2
115°	0.5	24.8	42.0	41.6	40.2
117.5°	0.5	23.9	41.1	41.1	39.8
120°	0.5	23.0	39.8	40.7	39.3
122.5°	0.5	22.1	38.4	39.8	38.4
125°	0.5	21.2	37.0	38.8	37.9
127.5°	0.9	19.9	35.2	37.9	37.0
130°	0.5	18.5	33.4	37.0	36.6
132.5°	0.9	17.2	31.6	35.7	35.7
135°	0.9	15.8	29.4	34.3	34.3
137.5°	0.9	14.0	27.1	32.5	33.0
140°	0.9	12.6	24.8	30.7	31.6
142.5°	0.9	11.3	22.6	28.9	30.3
145°	0.9	9.9	20.3	26.7	28.5
147.5°	0.9	9.0	18.1	23.9	26.7
150°	0.9	7.7	16.3	21.7	24.4
152.5°	0.9	6.8	14.5	19.4	22.6
155°	0.9	6.3	12.6	16.7	20.3
157.5°	0.9	5.4	10.8	14.5	18.1
160°	0.9	4.5	9.0	12.6	15.4
162.5°	0.9	4.1	7.7	10.4	13.6
165°	0.9	3.6	6.3	8.1	10.8
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)