

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-LD5-30SL-SLN-UNV-L930-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-LD5-30SL-SLN-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

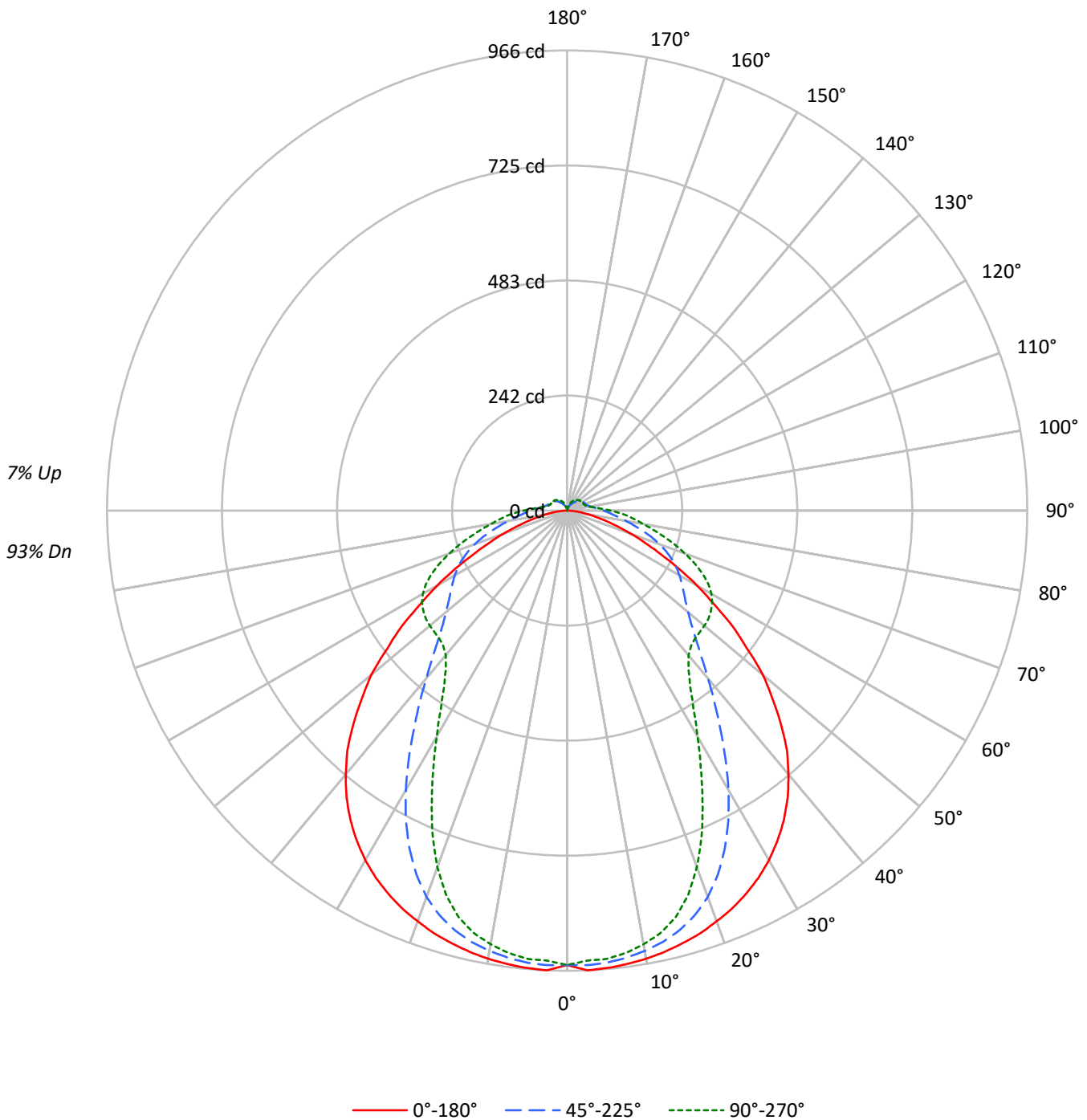
Lumens per Lamp: N/A
Luminaire Lumens: 2398.9 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V): NR
Input Current (A_{in}): 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°	7708	7708	7708
5°	7798	7539	7420
10°	7795	7330	7115
15°	7797	7085	6709
20°	7801	6719	6026
25°	7804	6157	5102
30°	7767	5418	4197
35°	7656	4609	3517
40°	7432	3903	3179
45°	7038	3392	3156
50°	6503	3101	3266
55°	5725	2981	3381
60°	4831	2939	3427
65°	3885	2873	3320
70°	3120	2726	3063
75°	2354	2467	2717
80°	1735	2215	2417
85°	1161	2090	2224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.8
10°-20°	255.1	10.6
20°-30°	356.6	14.9
30°-40°	369.9	15.4
40°-50°	341.7	14.2
50°-60°	305.1	12.7
60°-70°	247.2	10.3
70°-80°	164.5	6.9
80°-90°	94.2	3.9
90°-100°	52.1	2.2
100°-110°	35.3	1.5
110°-120°	29.4	1.2
120°-130°	23.9	1.0
130°-140°	17.2	0.7
140°-150°	10.4	0.4
150°-160°	5.0	0.2
160°-170°	1.3	0.1
170°-180°	0.0	0.0
0°-30°	701.9	29.3
0°-40°	1071.8	44.7
0°-60°	1718.6	71.6
0°-90°	2224.4	92.7
90°-120°	116.7	4.9
90°-150°	168.2	7.0
90°-180°	175.0	7.3
0°-180°	2398.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	964	948	953	946	945	92
15°	940	920	912	891	883	266
25°	888	849	783	701	672	409
35°	793	706	561	471	450	495
45°	635	503	382	369	380	488
55°	424	321	298	347	369	377
65°	217	194	243	298	313	219
75°	84	105	164	201	209	92
85°	17	49	97	124	127	20
90°	1	34	76	92	91	1
95°	1	29	60	65	63	1
105°	0	25	44	42	40	0
115°	0	23	39	38	37	0
125°	0	20	34	36	35	0
135°	1	14	27	32	32	1
145°	1	9	19	24	26	1
155°	1	6	12	15	19	0
165°	1	3	6	8	10	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°	953.9	953.9	953.9	953.9	953.9
2.5°	966.0	950.2	955.2	951.0	945.6
5°	963.9	947.7	952.7	946.1	944.8
7.5°	960.2	944.0	946.9	939.0	936.9
10°	955.2	938.2	938.6	927.4	924.5
12.5°	948.5	929.9	927.4	912.1	907.9
15°	939.8	919.9	912.1	891.3	882.6
17.5°	930.3	907.1	890.9	859.0	845.3
20°	917.5	891.3	863.1	814.6	796.4
22.5°	904.6	872.3	827.1	762.4	737.9
25°	888.0	848.6	783.1	701.0	672.4
27.5°	869.4	820.9	732.6	638.0	607.4
30°	847.4	787.3	677.0	576.3	547.2
32.5°	821.7	749.6	618.5	520.7	493.8
35°	793.1	706.0	561.3	471.4	450.2
37.5°	760.3	658.3	508.3	431.6	417.9
40°	723.0	606.5	459.3	400.9	396.3
42.5°	682.8	555.9	417.5	381.0	385.1
45°	635.1	503.3	382.2	368.6	379.8
47.5°	585.0	451.9	353.6	361.5	377.7
50°	536.5	404.2	331.2	356.9	376.0
52.5°	476.3	361.5	313.4	352.8	373.5
55°	424.5	320.9	298.5	347.0	368.6
57.5°	364.8	284.4	285.2	339.5	361.1
60°	315.1	251.2	272.4	329.2	349.9
62.5°	264.5	221.4	258.3	315.5	334.1
65°	216.8	194.0	242.9	297.7	313.4
67.5°	177.0	169.1	225.5	276.1	289.4
70°	143.4	146.3	206.5	252.1	263.3
72.5°	110.3	125.2	185.7	226.4	235.9
75°	84.2	105.3	163.8	200.7	208.9
77.5°	62.2	87.9	143.9	177.4	184.5
80°	43.9	72.6	125.2	157.1	162.5
82.5°	29.4	59.7	109.9	138.9	143.9
85°	17.0	48.9	96.6	123.5	126.9
87.5°	7.0	40.6	85.8	107.8	109.4
90°	0.8	34.4	76.3	92.0	91.2
92.5°	0.8	31.1	68.0	77.1	75.0
95°	0.8	29.0	60.5	64.7	62.6
97.5°	0.8	27.8	53.9	55.6	53.5
100°	0.4	26.9	49.3	49.3	47.3
102.5°	0.4	26.1	46.0	44.8	43.1
105°	0.4	25.3	43.5	42.3	40.2
107.5°	0.4	24.9	41.9	40.6	38.6
110°	0.4	24.0	40.6	39.4	37.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	23.6	39.8	39.0	36.9
115°	0.4	22.8	38.6	38.1	36.9
117.5°	0.4	22.0	37.7	37.7	36.5
120°	0.4	21.1	36.5	37.3	36.1
122.5°	0.4	20.3	35.2	36.5	35.2
125°	0.4	19.5	34.0	35.7	34.8
127.5°	0.8	18.2	32.3	34.8	34.0
130°	0.4	17.0	30.7	34.0	33.6
132.5°	0.8	15.8	29.0	32.8	32.8
135°	0.8	14.5	26.9	31.5	31.5
137.5°	0.8	12.9	24.9	29.8	30.3
140°	0.8	11.6	22.8	28.2	29.0
142.5°	0.8	10.4	20.7	26.5	27.8
145°	0.8	9.1	18.7	24.5	26.1
147.5°	0.8	8.3	16.6	22.0	24.5
150°	0.8	7.0	14.9	19.9	22.4
152.5°	0.8	6.2	13.3	17.8	20.7
155°	0.8	5.8	11.6	15.3	18.7
157.5°	0.8	5.0	9.9	13.3	16.6
160°	0.8	4.1	8.3	11.6	14.1
162.5°	0.8	3.7	7.0	9.5	12.4
165°	0.8	3.3	5.8	7.5	9.9
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)