

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: P284696

Luminaire Tested: **4SNLED-LD5-29SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-29SL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2510.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

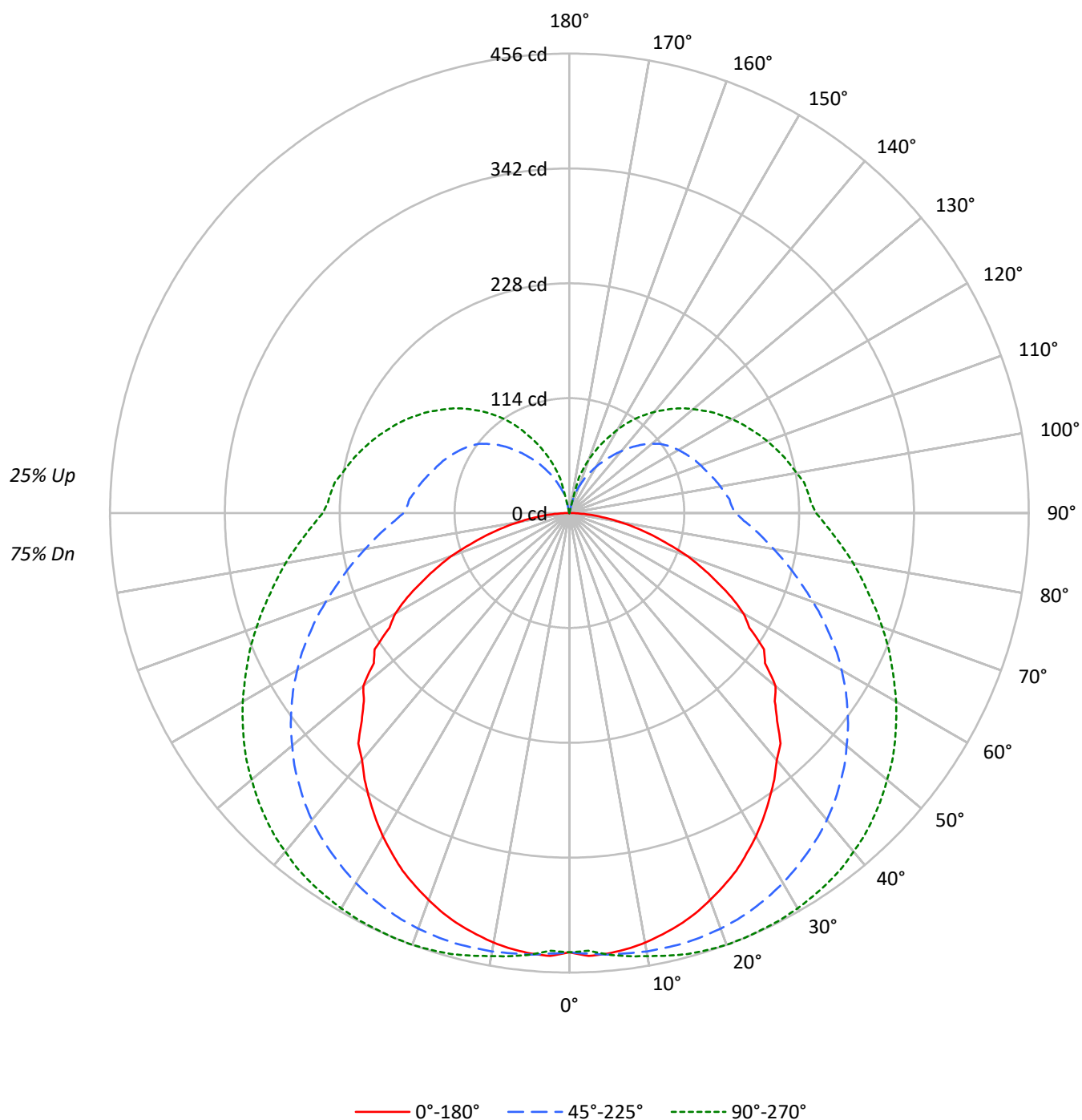
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	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			75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60			56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48			44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39			36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33			30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28			25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24			22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21			19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19			17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17			15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15			13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3523	3523	3523
5°	3550	3481	3455
10°	3533	3450	3436
15°	3509	3432	3443
20°	3475	3416	3450
25°	3442	3404	3456
30°	3395	3393	3474
35°	3342	3381	3497
40°	3291	3379	3520
45°	3229	3371	3548
50°	3239	3363	3576
55°	3182	3364	3619
60°	3065	3366	3668
65°	2894	3370	3736
70°	2709	3395	3842
75°	2377	3473	3996
80°	2008	3641	4254
85°	1489	3980	4630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	1.7
10°-20°	124.2	4.9
20°-30°	197.3	7.9
30°-40°	253.3	10.1
40°-50°	286.0	11.4
50°-60°	291.8	11.6
60°-70°	270.4	10.8
70°-80°	228.9	9.1
80°-90°	182.7	7.3
90°-100°	155.2	6.2
100°-110°	138.2	5.5
110°-120°	117.7	4.7
120°-130°	93.5	3.7
130°-140°	66.3	2.6
140°-150°	39.6	1.6
150°-160°	18.5	0.7
160°-170°	4.4	0.2
170°-180°	0.0	0.0
0°-30°	363.4	14.5
0°-40°	616.7	24.6
0°-60°	1194.6	47.6
0°-90°	1876.6	74.8
90°-120°	411.1	16.4
90°-150°	610.6	24.3
90°-180°	633.0	25.2
0°-180°	2510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	439	435	440	440	440	42
15°	423	426	442	450	453	119
25°	392	405	433	448	455	180
35°	346	372	412	437	448	217
45°	291	331	380	413	427	226
55°	236	276	337	378	395	207
65°	162	215	285	334	353	160
75°	85	150	231	287	307	90
85°	22	97	184	244	264	24
90°	1	79	165	224	245	2
95°	0	74	159	218	238	0
105°	0	68	145	200	220	0
115°	0	64	132	180	198	0
125°	0	55	117	159	174	0
135°	0	41	94	134	146	0
145°	0	27	66	100	114	0
155°	1	17	41	61	76	0
165°	1	9	18	25	36	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°	435.9	435.9	435.9	435.9	435.9
2.5°	439.9	435.3	437.7	437.1	434.7
5°	438.8	435.3	439.9	439.9	439.9
7.5°	436.4	434.0	440.6	442.9	443.6
10°	432.9	432.9	441.8	445.3	446.4
12.5°	428.1	429.9	441.8	447.1	449.9
15°	422.9	426.4	441.8	449.9	453.0
17.5°	416.4	422.3	440.6	450.6	454.7
20°	408.7	417.6	438.8	450.6	456.0
22.5°	400.4	411.7	436.4	449.5	456.0
25°	391.7	404.6	432.9	448.2	455.4
27.5°	381.0	397.6	428.8	446.4	454.7
30°	370.4	389.3	424.0	444.1	453.0
32.5°	358.6	380.4	418.1	440.6	450.6
35°	346.2	371.6	411.7	437.1	447.7
37.5°	333.8	361.0	405.2	432.3	444.1
40°	320.2	350.3	397.6	426.4	438.8
42.5°	310.2	339.2	389.3	420.5	433.6
45°	291.4	330.9	379.8	412.9	427.0
47.5°	276.6	315.0	370.4	405.2	419.9
50°	267.2	301.9	359.2	396.3	411.7
52.5°	244.8	293.2	348.6	387.6	403.9
55°	235.9	275.5	336.8	378.0	394.6
57.5°	211.7	263.1	325.0	367.5	384.5
60°	199.9	245.9	312.0	356.8	374.5
62.5°	181.6	231.3	299.1	345.1	363.4
65°	161.5	215.3	284.9	333.8	352.7
67.5°	142.8	199.4	271.4	322.0	342.0
70°	124.5	182.9	257.2	310.2	330.3
72.5°	103.1	166.3	243.5	299.1	319.1
75°	85.0	150.4	230.6	287.3	307.3
77.5°	67.2	135.1	218.2	276.6	296.7
80°	50.8	120.3	205.8	265.5	286.0
82.5°	35.3	107.9	194.7	254.8	274.9
85°	21.8	96.8	184.0	243.5	264.2
87.5°	10.0	86.7	173.3	233.0	254.2
90°	1.1	79.1	164.6	224.1	244.8
92.5°	0.6	76.7	161.1	220.0	240.0
95°	0.0	74.3	159.3	217.6	237.6
97.5°	0.0	71.9	155.2	214.1	234.8
100°	0.0	70.8	152.2	208.8	228.9
102.5°	0.0	69.1	148.7	204.0	224.1
105°	0.0	68.4	145.2	199.9	219.5
107.5°	0.0	67.2	141.5	194.7	214.1
110°	0.0	66.1	138.6	189.9	208.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	64.9	135.6	185.3	203.4
115°	0.0	63.7	132.1	179.9	197.5
117.5°	0.0	61.9	128.6	174.6	192.3
120°	0.0	59.5	125.1	169.8	186.4
122.5°	0.0	57.1	121.4	163.9	179.9
125°	0.0	54.9	117.3	158.7	174.0
127.5°	0.0	51.2	112.7	152.8	167.0
130°	0.0	47.7	106.8	146.9	160.4
132.5°	0.6	44.2	100.9	140.4	153.9
135°	0.0	40.7	94.4	133.9	146.3
137.5°	0.0	37.7	87.2	126.9	138.6
140°	0.0	34.2	80.2	118.6	131.0
142.5°	0.0	30.1	73.2	109.7	122.7
145°	0.0	26.6	66.1	100.3	114.4
147.5°	0.6	23.6	59.5	90.2	105.5
150°	0.6	21.2	53.2	80.2	95.5
152.5°	0.6	18.9	46.6	70.8	85.5
155°	0.6	16.6	40.7	61.3	76.1
157.5°	0.6	14.2	34.2	51.9	66.1
160°	0.6	12.4	28.3	43.6	56.7
162.5°	0.6	10.7	23.1	34.2	46.6
165°	0.6	8.9	18.3	25.3	36.0
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)