

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: P284697

Luminaire Tested: **4SNLED-LD5-32SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284697
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-LD5-32SL-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: 2761.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

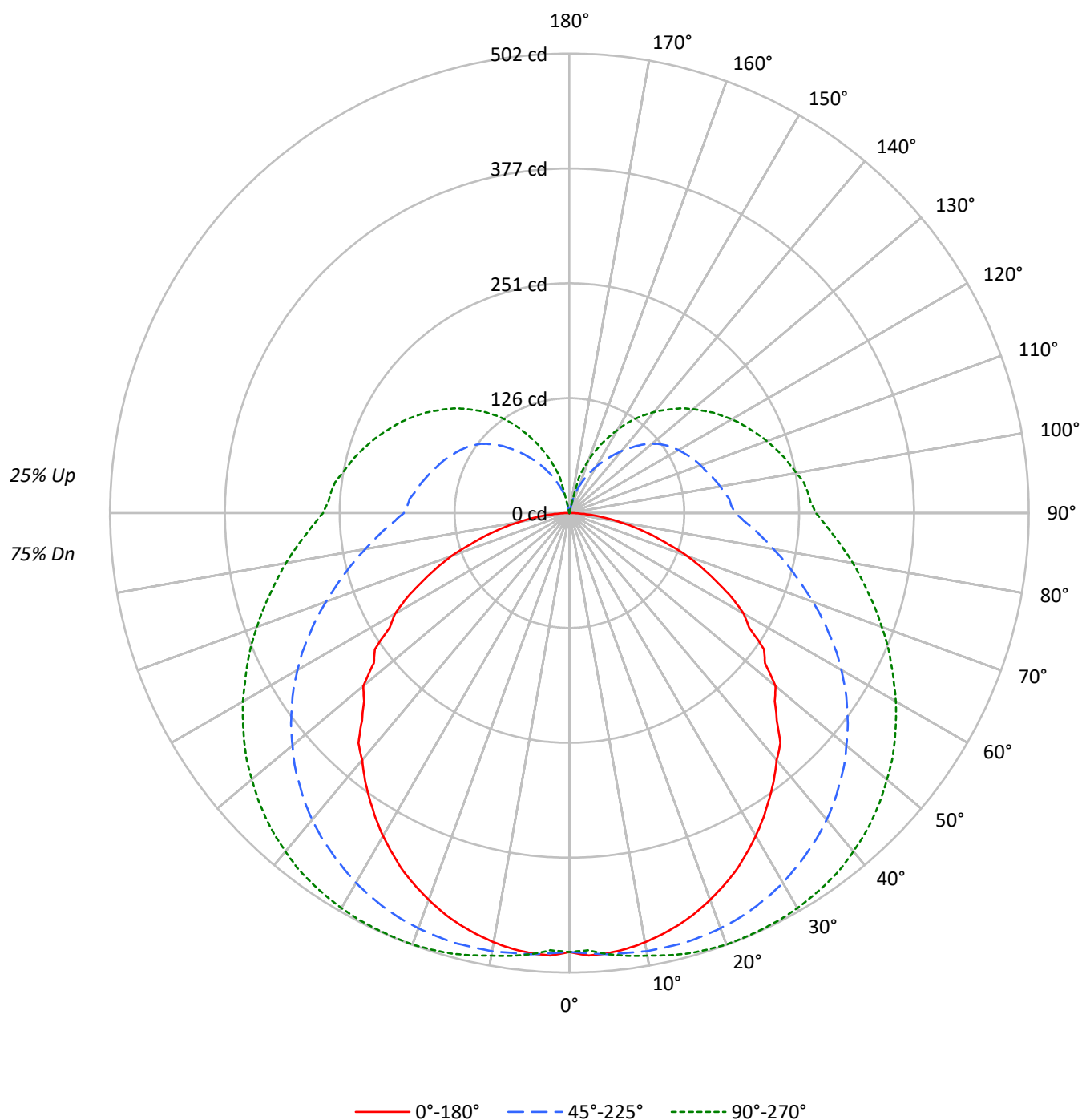
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3875	3875	3875
5°	3905	3829	3801
10°	3886	3796	3780
15°	3860	3775	3788
20°	3823	3758	3795
25°	3787	3744	3801
30°	3734	3732	3822
35°	3676	3719	3847
40°	3621	3716	3872
45°	3553	3708	3903
50°	3563	3699	3934
55°	3500	3700	3981
60°	3372	3702	4035
65°	3184	3707	4110
70°	2979	3734	4226
75°	2614	3821	4397
80°	2206	4005	4679
85°	1640	4378	5093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.7
10°-20°	136.6	4.9
20°-30°	217.1	7.9
30°-40°	278.6	10.1
40°-50°	314.6	11.4
50°-60°	321.0	11.6
60°-70°	297.4	10.8
70°-80°	251.8	9.1
80°-90°	201.0	7.3
90°-100°	170.7	6.2
100°-110°	152.1	5.5
110°-120°	129.5	4.7
120°-130°	102.9	3.7
130°-140°	73.0	2.6
140°-150°	43.6	1.6
150°-160°	20.3	0.7
160°-170°	4.8	0.2
170°-180°	0.0	0.0
0°-30°	399.7	14.5
0°-40°	678.3	24.6
0°-60°	1314.0	47.6
0°-90°	2064.2	74.8
90°-120°	452.3	16.4
90°-150°	671.7	24.3
90°-180°	697.0	25.2
0°-180°	2761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	480	480	480	480	480	
5°	483	479	484	484	484	46
15°	465	469	486	495	498	131
25°	431	445	476	493	501	198
35°	381	409	453	481	492	238
45°	321	364	418	454	470	249
55°	260	303	370	416	434	228
65°	178	237	313	367	388	176
75°	94	165	254	316	338	99
85°	24	106	202	268	291	26
90°	1	87	181	246	269	2
95°	0	82	175	239	261	0
105°	0	75	160	220	241	0
115°	0	70	145	198	217	0
125°	0	60	129	175	191	0
135°	0	45	104	147	161	0
145°	0	29	73	110	126	0
155°	1	18	45	67	84	0
165°	1	10	20	28	40	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°	479.5	479.5	479.5	479.5	479.5
2.5°	483.9	478.8	481.5	480.8	478.1
5°	482.7	478.8	483.9	483.9	483.9
7.5°	480.1	477.4	484.6	487.2	487.9
10°	476.2	476.2	486.0	489.9	491.1
12.5°	471.0	472.9	486.0	491.8	494.9
15°	465.2	469.0	486.0	494.9	498.3
17.5°	458.0	464.5	484.6	495.6	500.2
20°	449.6	459.4	482.7	495.6	501.6
22.5°	440.5	452.9	480.1	494.4	501.6
25°	430.9	445.0	476.2	493.0	500.9
27.5°	419.1	437.3	471.7	491.1	500.2
30°	407.4	428.2	466.4	488.5	498.3
32.5°	394.4	418.4	459.9	484.6	495.6
35°	380.8	408.8	452.9	480.8	492.5
37.5°	367.1	397.1	445.7	475.5	488.5
40°	352.3	385.3	437.3	469.0	482.7
42.5°	341.2	373.1	428.2	462.6	476.9
45°	320.6	364.0	417.7	454.1	469.7
47.5°	304.3	346.5	407.4	445.7	461.9
50°	294.0	332.1	395.1	435.9	452.9
52.5°	269.3	322.5	383.4	426.3	444.3
55°	259.5	303.1	370.5	415.8	434.0
57.5°	232.9	289.4	357.5	404.3	423.0
60°	219.9	270.5	343.1	392.5	412.0
62.5°	199.8	254.4	329.0	379.6	399.7
65°	177.7	236.9	313.4	367.1	388.0
67.5°	157.0	219.4	298.5	354.2	376.2
70°	136.9	201.2	282.9	341.2	363.3
72.5°	113.4	183.0	267.9	329.0	351.0
75°	93.5	165.4	253.7	316.0	338.1
77.5°	73.9	148.6	240.0	304.3	326.3
80°	55.8	132.4	226.4	292.0	314.6
82.5°	38.9	118.7	214.1	280.3	302.4
85°	24.0	106.4	202.4	267.9	290.6
87.5°	11.0	95.4	190.7	256.3	279.6
90°	1.2	87.0	181.0	246.5	269.3
92.5°	0.7	84.4	177.2	242.0	264.0
95°	0.0	81.8	175.3	239.3	261.4
97.5°	0.0	79.1	170.7	235.5	258.2
100°	0.0	77.9	167.4	229.7	251.8
102.5°	0.0	76.0	163.5	224.4	246.5
105°	0.0	75.3	159.7	219.9	241.4
107.5°	0.0	73.9	155.6	214.1	235.5
110°	0.0	72.7	152.5	208.9	229.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	71.4	149.2	203.8	223.7
115°	0.0	70.0	145.3	197.8	217.3
117.5°	0.0	68.1	141.5	192.1	211.5
120°	0.0	65.5	137.6	186.8	205.0
122.5°	0.0	62.9	133.6	180.3	197.8
125°	0.0	60.4	129.0	174.6	191.4
127.5°	0.0	56.4	124.0	168.1	183.7
130°	0.0	52.5	117.5	161.6	176.5
132.5°	0.7	48.7	111.0	154.4	169.3
135°	0.0	44.8	103.8	147.2	160.9
137.5°	0.0	41.5	95.9	139.5	152.5
140°	0.0	37.6	88.2	130.4	144.1
142.5°	0.0	33.1	80.5	120.6	135.0
145°	0.0	29.2	72.7	110.3	125.9
147.5°	0.7	25.9	65.5	99.3	116.1
150°	0.7	23.3	58.5	88.2	105.0
152.5°	0.7	20.8	51.3	77.9	94.0
155°	0.7	18.2	44.8	67.4	83.7
157.5°	0.7	15.6	37.6	57.1	72.7
160°	0.7	13.7	31.2	48.0	62.3
162.5°	0.7	11.7	25.4	37.6	51.3
165°	0.7	9.8	20.1	27.8	39.6
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)