

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: P284541

Luminaire Tested: **4SNLED-LD5-32SL-SLW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284541
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-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3266.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

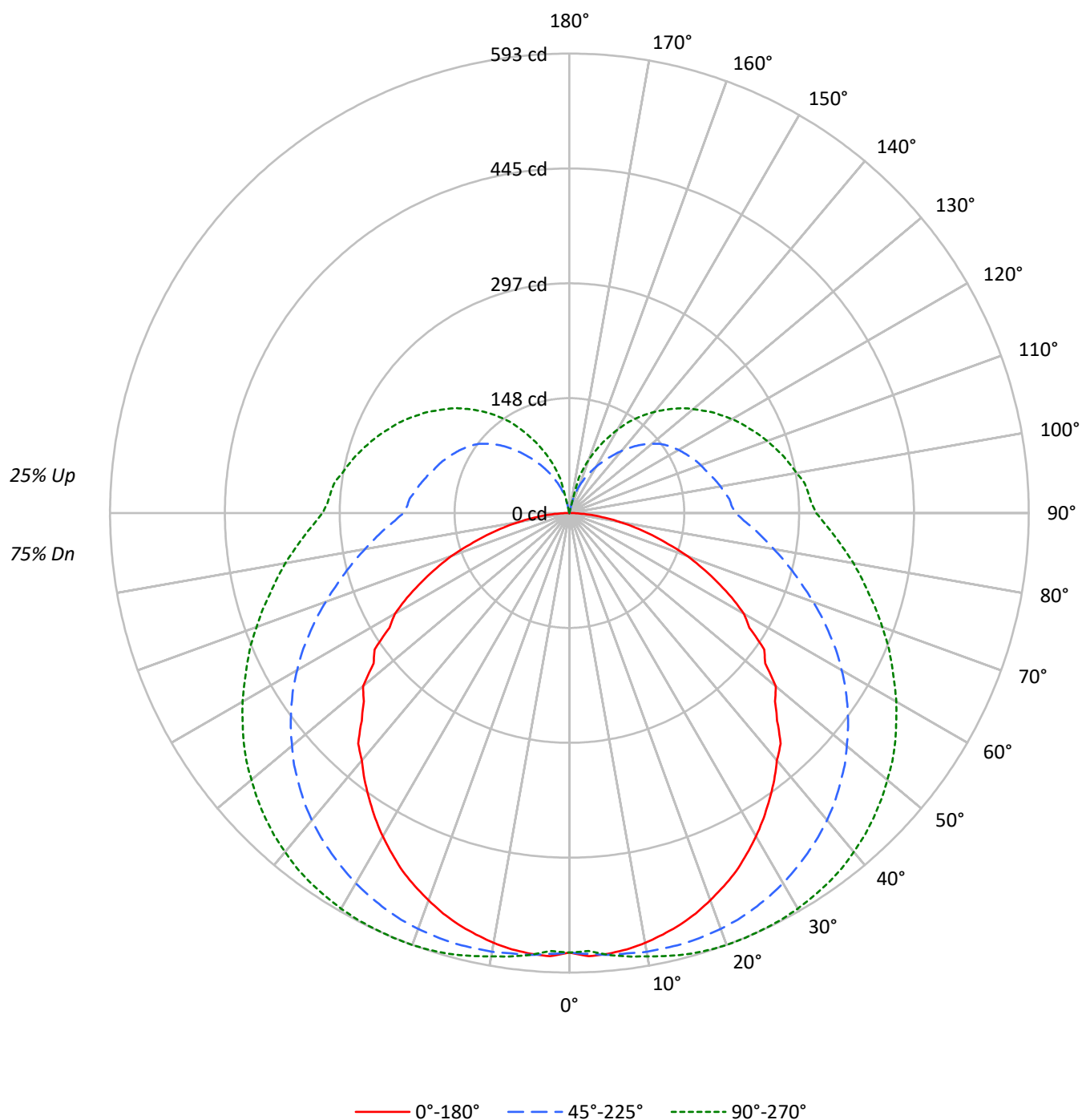
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	4584	4584	4584
5°	4619	4529	4496
10°	4597	4490	4471
15°	4566	4466	4480
20°	4522	4445	4489
25°	4479	4429	4496
30°	4417	4415	4520
35°	4348	4400	4551
40°	4283	4396	4581
45°	4202	4386	4617
50°	4214	4376	4654
55°	4139	4377	4709
60°	3988	4379	4773
65°	3767	4385	4861
70°	3525	4418	4998
75°	3093	4520	5200
80°	2613	4737	5536
85°	1940	5178	6025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.7
10°-20°	161.6	4.9
20°-30°	256.8	7.9
30°-40°	329.6	10.1
40°-50°	372.2	11.4
50°-60°	379.7	11.6
60°-70°	351.8	10.8
70°-80°	297.8	9.1
80°-90°	237.8	7.3
90°-100°	201.9	6.2
100°-110°	179.9	5.5
110°-120°	153.2	4.7
120°-130°	121.7	3.7
130°-140°	86.3	2.6
140°-150°	51.5	1.6
150°-160°	24.0	0.7
160°-170°	5.7	0.2
170°-180°	0.0	0.0
0°-30°	472.9	14.5
0°-40°	802.4	24.6
0°-60°	1554.3	47.6
0°-90°	2441.8	74.8
90°-120°	535.0	16.4
90°-150°	794.5	24.3
90°-180°	824.0	25.2
0°-180°	3266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	571	566	572	572	572	54
15°	550	555	575	586	589	155
25°	510	526	563	583	592	235
35°	450	484	536	569	583	282
45°	379	431	494	537	556	294
55°	307	358	438	492	513	269
65°	210	280	371	434	459	209
75°	111	196	300	374	400	118
85°	28	126	239	317	344	31
90°	1	103	214	292	318	2
95°	0	97	207	283	309	0
105°	0	89	189	260	286	0
115°	0	83	172	234	257	0
125°	0	71	153	206	226	0
135°	0	53	123	174	190	0
145°	0	35	86	130	149	0
155°	1	22	53	80	99	0
165°	1	12	24	33	47	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°	567.2	567.2	567.2	567.2	567.2
2.5°	572.4	566.4	569.5	568.7	565.6
5°	571.0	566.4	572.4	572.4	572.4
7.5°	567.9	564.8	573.2	576.4	577.2
10°	563.3	563.3	574.9	579.5	580.9
12.5°	557.1	559.4	574.9	581.7	585.5
15°	550.3	554.8	574.9	585.5	589.4
17.5°	541.8	549.4	573.2	586.3	591.7
20°	531.8	543.4	571.0	586.3	593.3
22.5°	521.1	535.8	567.9	584.8	593.3
25°	509.7	526.4	563.3	583.2	592.5
27.5°	495.8	517.3	557.9	580.9	591.7
30°	481.9	506.6	551.7	577.8	589.4
32.5°	466.6	495.0	544.0	573.2	586.3
35°	450.4	483.6	535.8	568.7	582.6
37.5°	434.3	469.7	527.3	562.5	577.8
40°	416.7	455.8	517.3	554.8	571.0
42.5°	403.6	441.3	506.6	547.2	564.1
45°	379.2	430.6	494.1	537.2	555.6
47.5°	359.9	409.8	481.9	527.3	546.3
50°	347.7	392.9	467.4	515.7	535.8
52.5°	318.5	381.5	453.5	504.3	525.6
55°	306.9	358.5	438.2	491.9	513.4
57.5°	275.4	342.3	422.9	478.2	500.3
60°	260.1	320.0	405.9	464.3	487.3
62.5°	236.3	300.9	389.1	449.0	472.8
65°	210.2	280.2	370.7	434.3	458.9
67.5°	185.8	259.5	353.1	419.0	445.1
70°	162.0	238.0	334.7	403.6	429.7
72.5°	134.2	216.4	316.9	389.1	415.2
75°	110.6	195.7	300.1	373.8	399.9
77.5°	87.4	175.8	283.9	359.9	386.0
80°	66.1	156.6	267.8	345.4	372.2
82.5°	46.0	140.4	253.3	331.6	357.7
85°	28.4	125.9	239.4	316.9	343.8
87.5°	13.0	112.9	225.5	303.2	330.7
90°	1.4	102.9	214.1	291.6	318.5
92.5°	0.8	99.8	209.6	286.2	312.3
95°	0.0	96.7	207.3	283.1	309.2
97.5°	0.0	93.6	201.9	278.5	305.5
100°	0.0	92.2	198.0	271.7	297.8
102.5°	0.0	89.9	193.4	265.5	291.6
105°	0.0	89.1	188.9	260.1	285.6
107.5°	0.0	87.4	184.1	253.3	278.5
110°	0.0	85.9	180.4	247.1	271.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	84.5	176.4	241.1	264.7
115°	0.0	82.8	171.9	234.0	257.0
117.5°	0.0	80.6	167.3	227.2	250.2
120°	0.0	77.5	162.8	221.0	242.5
122.5°	0.0	74.3	158.0	213.3	234.0
125°	0.0	71.4	152.6	206.5	226.4
127.5°	0.0	66.7	146.6	198.8	217.2
130°	0.0	62.1	139.0	191.2	208.8
132.5°	0.8	57.6	131.3	182.7	200.3
135°	0.0	53.0	122.8	174.2	190.3
137.5°	0.0	49.1	113.5	165.1	180.4
140°	0.0	44.5	104.4	154.3	170.4
142.5°	0.0	39.1	95.3	142.7	159.7
145°	0.0	34.6	85.9	130.5	148.9
147.5°	0.8	30.7	77.5	117.4	137.3
150°	0.8	27.5	69.2	104.4	124.3
152.5°	0.8	24.6	60.7	92.2	111.2
155°	0.8	21.5	53.0	79.7	99.0
157.5°	0.8	18.4	44.5	67.5	85.9
160°	0.8	16.2	36.9	56.7	73.7
162.5°	0.8	13.9	30.0	44.5	60.7
165°	0.8	11.6	23.8	32.9	46.8
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)