

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: P284463

Luminaire Tested: **4SNLED-LD5-32SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284463
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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3157.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

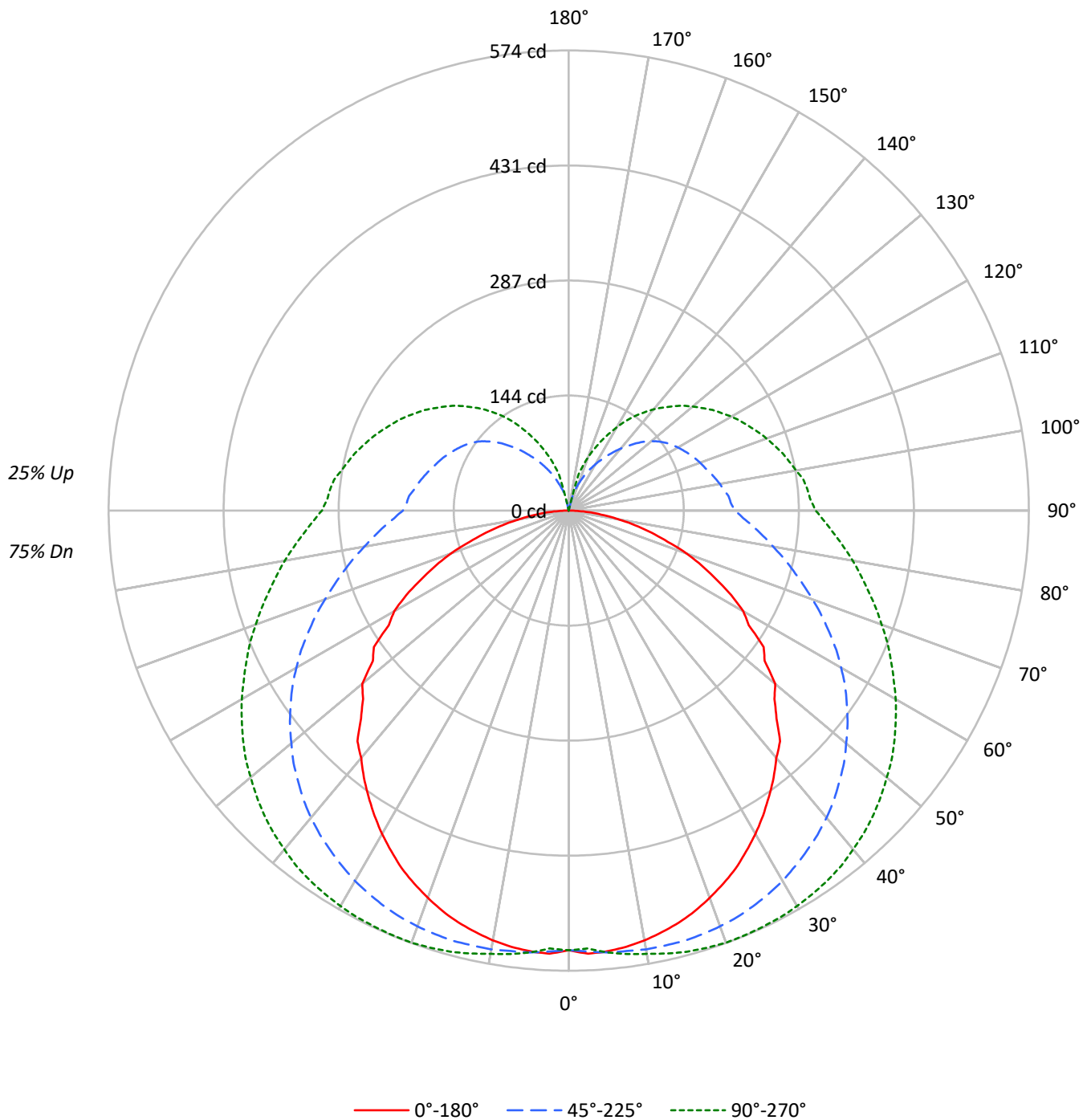
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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°	4431	4431	4431
5°	4465	4378	4346
10°	4444	4340	4321
15°	4413	4316	4331
20°	4371	4297	4339
25°	4330	4281	4346
30°	4269	4268	4369
35°	4203	4253	4399
40°	4141	4250	4427
45°	4062	4239	4463
50°	4074	4230	4499
55°	4002	4231	4552
60°	3855	4234	4613
65°	3641	4238	4699
70°	3405	4270	4832
75°	2989	4369	5028
80°	2526	4578	5350
85°	1872	5005	5824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.7
10°-20°	156.2	4.9
20°-30°	248.2	7.9
30°-40°	318.6	10.1
40°-50°	359.7	11.4
50°-60°	367.1	11.6
60°-70°	340.1	10.8
70°-80°	287.9	9.1
80°-90°	229.8	7.3
90°-100°	195.2	6.2
100°-110°	173.9	5.5
110°-120°	148.1	4.7
120°-130°	117.6	3.7
130°-140°	83.4	2.6
140°-150°	49.8	1.6
150°-160°	23.2	0.7
160°-170°	5.5	0.2
170°-180°	0.0	0.0
0°-30°	457.1	14.5
0°-40°	775.6	24.6
0°-60°	1502.5	47.6
0°-90°	2360.3	74.8
90°-120°	517.1	16.4
90°-150°	768.0	24.3
90°-180°	797.0	25.2
0°-180°	3157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	552	548	553	553	553	52
15°	532	536	556	566	570	150
25°	493	509	544	564	573	227
35°	435	467	518	550	563	273
45°	366	416	478	519	537	285
55°	297	346	424	475	496	260
65°	203	271	358	420	444	202
75°	107	189	290	361	387	114
85°	27	122	231	306	332	30
90°	1	100	207	282	308	2
95°	0	94	200	274	299	0
105°	0	86	183	251	276	0
115°	0	80	166	226	248	0
125°	0	69	148	200	219	0
135°	0	51	119	168	184	0
145°	0	33	83	126	144	0
155°	1	21	51	77	96	0
165°	1	11	23	32	45	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 4SNLED-LD5-32SL-SLW-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	548.3	548.3	548.3	548.3	548.3
2.5°	553.3	547.5	550.5	549.7	546.7
5°	551.9	547.5	553.3	553.3	553.3
7.5°	548.9	545.9	554.1	557.1	557.9
10°	544.5	544.5	555.7	560.1	561.5
12.5°	538.5	540.7	555.7	562.3	565.9
15°	531.9	536.3	555.7	565.9	569.7
17.5°	523.7	531.1	554.1	566.7	571.9
20°	514.1	525.3	551.9	566.7	573.5
22.5°	503.7	517.9	548.9	565.3	573.5
25°	492.7	508.9	544.5	563.7	572.7
27.5°	479.2	500.1	539.3	561.5	571.9
30°	465.8	489.7	533.3	558.5	569.7
32.5°	451.0	478.4	525.9	554.1	566.7
35°	435.4	467.4	517.9	549.7	563.1
37.5°	419.8	454.0	509.7	543.7	558.5
40°	402.8	440.6	500.1	536.3	551.9
42.5°	390.2	426.6	489.7	528.9	545.3
45°	366.5	416.2	477.6	519.3	537.1
47.5°	347.9	396.2	465.8	509.7	528.1
50°	336.1	379.8	451.8	498.5	517.9
52.5°	307.9	368.7	438.4	487.5	508.1
55°	296.7	346.5	423.6	475.4	496.3
57.5°	266.2	330.9	408.8	462.2	483.7
60°	251.4	309.3	392.4	448.8	471.0
62.5°	228.4	290.9	376.2	434.0	457.0
65°	203.2	270.9	358.3	419.8	443.6
67.5°	179.6	250.8	341.3	405.0	430.2
70°	156.5	230.0	323.5	390.2	415.4
72.5°	129.7	209.2	306.3	376.2	401.4
75°	106.9	189.2	290.1	361.3	386.6
77.5°	84.5	170.0	274.5	347.9	373.1
80°	63.9	151.3	258.8	333.9	359.7
82.5°	44.4	135.7	244.8	320.5	345.7
85°	27.4	121.7	231.4	306.3	332.3
87.5°	12.6	109.1	218.0	293.1	319.7
90°	1.4	99.5	207.0	281.9	307.9
92.5°	0.8	96.5	202.6	276.7	301.9
95°	0.0	93.5	200.4	273.7	298.9
97.5°	0.0	90.5	195.2	269.3	295.3
100°	0.0	89.1	191.4	262.6	287.9
102.5°	0.0	86.9	187.0	256.6	281.9
105°	0.0	86.1	182.6	251.4	276.1
107.5°	0.0	84.5	178.0	244.8	269.3
110°	0.0	83.1	174.4	238.8	262.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	81.7	170.6	233.0	255.8
115°	0.0	80.1	166.2	226.2	248.4
117.5°	0.0	77.9	161.8	219.6	241.8
120°	0.0	74.9	157.3	213.6	234.4
122.5°	0.0	71.9	152.7	206.2	226.2
125°	0.0	69.1	147.5	199.6	218.8
127.5°	0.0	64.5	141.7	192.2	210.0
130°	0.0	60.1	134.3	184.8	201.8
132.5°	0.8	55.7	126.9	176.6	193.6
135°	0.0	51.2	118.7	168.4	184.0
137.5°	0.0	47.4	109.7	159.5	174.4
140°	0.0	43.0	100.9	149.1	164.8
142.5°	0.0	37.8	92.1	137.9	154.3
145°	0.0	33.4	83.1	126.1	143.9
147.5°	0.8	29.6	74.9	113.5	132.7
150°	0.8	26.6	66.9	100.9	120.1
152.5°	0.8	23.8	58.7	89.1	107.5
155°	0.8	20.8	51.2	77.1	95.7
157.5°	0.8	17.8	43.0	65.3	83.1
160°	0.8	15.6	35.6	54.9	71.3
162.5°	0.8	13.4	29.0	43.0	58.7
165°	0.8	11.2	23.0	31.8	45.2
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)