

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: P284502

Luminaire Tested: **4SNLED-LD5-32SL-SLW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284502
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-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3211.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

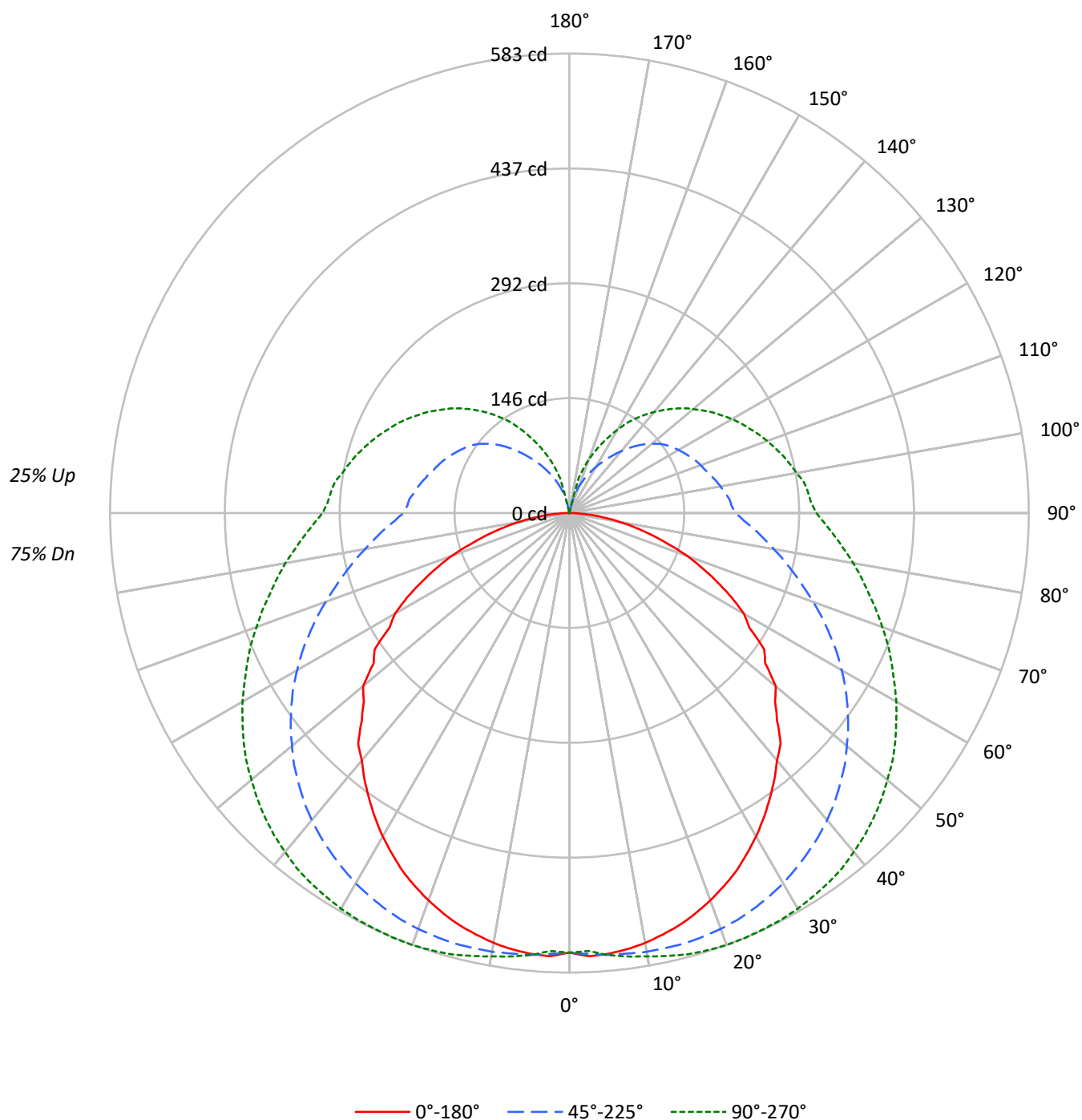
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284502

CATALOG NUMBER: 4SNLED-LD5-32SL-SLW-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284502

CATALOG NUMBER: 4SNLED-LD5-32SL-SLW-UNV-L835-CD1-U

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°	4507	4507	4507
5°	4542	4453	4420
10°	4519	4414	4395
15°	4488	4390	4405
20°	4446	4370	4413
25°	4404	4354	4420
30°	4343	4341	4444
35°	4276	4325	4475
40°	4211	4322	4504
45°	4131	4312	4539
50°	4144	4302	4575
55°	4070	4303	4630
60°	3920	4306	4692
65°	3704	4311	4780
70°	3464	4343	4914
75°	3039	4443	5113
80°	2570	4658	5442
85°	1906	5092	5924



TEST NUMBER: P284502

CATALOG NUMBER: 4SNLED-LD5-32SL-SLW-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.7
10°-20°	158.8	4.9
20°-30°	252.5	7.9
30°-40°	324.0	10.1
40°-50°	365.9	11.4
50°-60°	373.4	11.6
60°-70°	345.9	10.8
70°-80°	292.8	9.1
80°-90°	233.7	7.3
90°-100°	198.5	6.2
100°-110°	176.8	5.5
110°-120°	150.6	4.7
120°-130°	119.6	3.7
130°-140°	84.9	2.6
140°-150°	50.7	1.6
150°-160°	23.6	0.7
160°-170°	5.6	0.2
170°-180°	0.0	0.0
0°-30°	464.9	14.5
0°-40°	788.9	24.6
0°-60°	1528.2	47.6
0°-90°	2400.6	74.8
90°-120°	526.0	16.4
90°-150°	781.1	24.3
90°-180°	810.0	25.2
0°-180°	3211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	558	558	558	558	558	
5°	561	557	563	563	563	53
15°	541	546	565	576	580	153
25°	501	518	554	573	582	231
35°	443	475	527	559	573	277
45°	373	423	486	528	546	289
55°	302	352	431	484	505	265
65°	207	276	364	427	451	205
75°	109	192	295	368	393	116
85°	28	124	235	312	338	30
90°	1	101	210	287	313	2
95°	0	95	204	278	304	0
105°	0	88	186	256	281	0
115°	0	81	169	230	253	0
125°	0	70	150	203	222	0
135°	0	52	121	171	187	0
145°	0	34	84	128	146	0
155°	1	21	52	78	97	0
165°	1	11	23	32	46	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284502

CATALOG NUMBER: 4SNLED-LD5-32SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	557.7	557.7	557.7	557.7	557.7
2.5°	562.8	556.9	559.9	559.1	556.1
5°	561.4	556.9	562.8	562.8	562.8
7.5°	558.3	555.2	563.6	566.6	567.5
10°	553.8	553.8	565.2	569.7	571.1
12.5°	547.7	550.0	565.2	571.9	575.6
15°	541.0	545.5	565.2	575.6	579.5
17.5°	532.6	540.2	563.6	576.4	581.7
20°	522.9	534.3	561.4	576.4	583.3
22.5°	512.3	526.7	558.3	575.0	583.3
25°	501.1	517.6	553.8	573.4	582.5
27.5°	487.4	508.6	548.5	571.1	581.7
30°	473.8	498.0	542.4	568.1	579.5
32.5°	458.7	486.6	534.9	563.6	576.4
35°	442.9	475.4	526.7	559.1	572.8
37.5°	427.0	461.8	518.4	553.0	568.1
40°	409.7	448.1	508.6	545.5	561.4
42.5°	396.8	433.9	498.0	537.9	554.6
45°	372.8	423.3	485.8	528.2	546.3
47.5°	353.9	402.9	473.8	518.4	537.1
50°	341.9	386.2	459.5	507.0	526.7
52.5°	313.2	375.1	445.9	495.8	516.8
55°	301.8	352.5	430.8	483.6	504.8
57.5°	270.8	336.6	415.8	470.1	491.9
60°	255.7	314.6	399.1	456.5	479.1
62.5°	232.3	295.8	382.6	441.4	464.8
65°	206.7	275.5	364.5	427.0	451.2
67.5°	182.6	255.1	347.2	411.9	437.6
70°	159.2	233.9	329.0	396.8	422.5
72.5°	131.9	212.8	311.5	382.6	408.2
75°	108.7	192.4	295.0	367.5	393.2
77.5°	85.9	172.9	279.2	353.9	379.5
80°	65.0	153.9	263.3	339.6	365.9
82.5°	45.2	138.0	249.0	326.0	351.6
85°	27.9	123.8	235.4	311.5	338.0
87.5°	12.8	111.0	221.7	298.1	325.2
90°	1.4	101.2	210.5	286.7	313.2
92.5°	0.8	98.1	206.1	281.4	307.0
95°	0.0	95.1	203.8	278.3	304.0
97.5°	0.0	92.0	198.5	273.9	300.3
100°	0.0	90.6	194.7	267.1	292.8
102.5°	0.0	88.4	190.2	261.0	286.7
105°	0.0	87.6	185.7	255.7	280.8
107.5°	0.0	85.9	181.0	249.0	273.9
110°	0.0	84.5	177.3	242.9	267.1



TEST NUMBER: P284502

CATALOG NUMBER: 4SNLED-LD5-32SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	83.1	173.5	237.0	260.2
115°	0.0	81.4	169.0	230.1	252.7
117.5°	0.0	79.2	164.5	223.4	246.0
120°	0.0	76.2	160.0	217.3	238.4
122.5°	0.0	73.1	155.4	209.7	230.1
125°	0.0	70.2	150.1	203.0	222.5
127.5°	0.0	65.6	144.2	195.5	213.6
130°	0.0	61.1	136.6	187.9	205.2
132.5°	0.8	56.6	129.1	179.6	196.9
135°	0.0	52.1	120.7	171.2	187.1
137.5°	0.0	48.3	111.6	162.3	177.3
140°	0.0	43.8	102.6	151.7	167.6
142.5°	0.0	38.5	93.7	140.3	157.0
145°	0.0	34.0	84.5	128.3	146.4
147.5°	0.8	30.1	76.2	115.4	135.0
150°	0.8	27.1	68.0	102.6	122.2
152.5°	0.8	24.2	59.7	90.6	109.3
155°	0.8	21.2	52.1	78.4	97.3
157.5°	0.8	18.1	43.8	66.4	84.5
160°	0.8	15.9	36.2	55.8	72.5
162.5°	0.8	13.6	29.5	43.8	59.7
165°	0.8	11.4	23.4	32.4	46.0
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)