

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: P284735

Luminaire Tested: **4SNLED-LD5-29SL-SLW-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284735
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2676.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

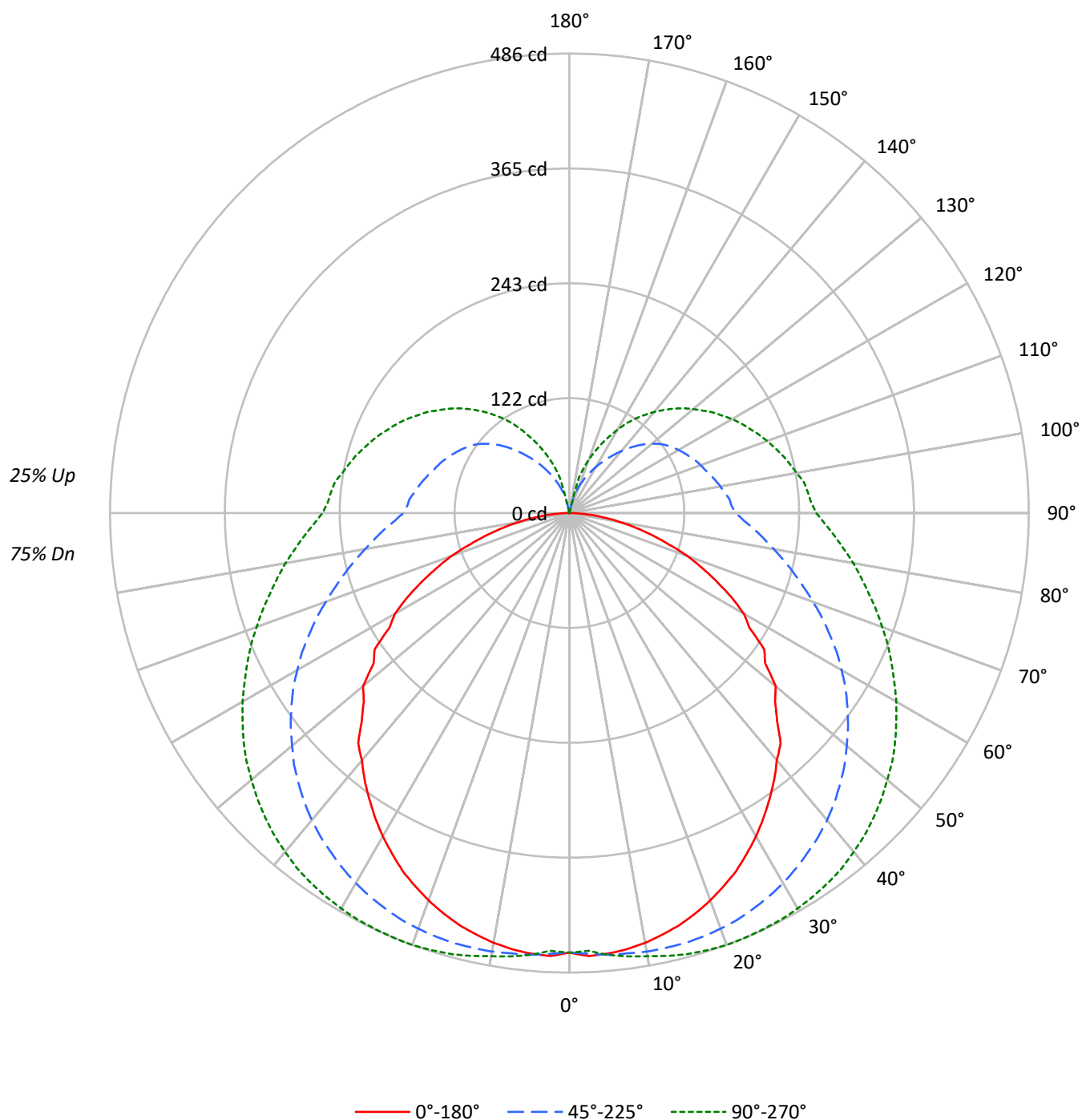
Input Watts (W): 25
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284735

CATALOG NUMBER: 4SNLED-LD5-29SL-SLW-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284735

CATALOG NUMBER: 4SNLED-LD5-29SL-SLW-UNV-L950-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°	3756	3756	3756
5°	3784	3711	3684
10°	3766	3678	3663
15°	3741	3659	3671
20°	3706	3642	3679
25°	3670	3628	3684
30°	3620	3617	3703
35°	3563	3605	3729
40°	3509	3603	3753
45°	3443	3594	3783
50°	3453	3586	3813
55°	3392	3587	3859
60°	3267	3588	3911
65°	3086	3592	3983
70°	2887	3619	4095
75°	2533	3704	4262
80°	2139	3881	4535
85°	1585	4244	4937



TEST NUMBER: P284735

CATALOG NUMBER: 4SNLED-LD5-29SL-SLW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.7
10°-20°	132.4	4.9
20°-30°	210.4	7.9
30°-40°	270.0	10.1
40°-50°	304.9	11.4
50°-60°	311.2	11.6
60°-70°	288.3	10.8
70°-80°	244.0	9.1
80°-90°	194.8	7.3
90°-100°	165.4	6.2
100°-110°	147.4	5.5
110°-120°	125.5	4.7
120°-130°	99.7	3.7
130°-140°	70.7	2.6
140°-150°	42.2	1.6
150°-160°	19.7	0.7
160°-170°	4.7	0.2
170°-180°	0.0	0.0
0°-30°	387.4	14.5
0°-40°	657.5	24.6
0°-60°	1273.6	47.6
0°-90°	2000.7	74.8
90°-120°	438.3	16.4
90°-150°	651.0	24.3
90°-180°	675.0	25.2
0°-180°	2676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	468	464	469	469	469	44
15°	451	455	471	480	483	127
25°	418	431	462	478	486	192
35°	369	396	439	466	477	231
45°	311	353	405	440	455	241
55°	252	294	359	403	421	221
65°	172	230	304	356	376	171
75°	91	160	246	306	328	96
85°	23	103	196	260	282	25
90°	1	84	176	239	261	2
95°	0	79	170	232	253	0
105°	0	73	155	213	234	0
115°	0	68	141	192	211	0
125°	0	58	125	169	186	0
135°	0	43	101	143	156	0
145°	0	28	70	107	122	0
155°	1	18	43	65	81	0
165°	1	10	20	27	38	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284735

CATALOG NUMBER: 4SNLED-LD5-29SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	464.8	464.8	464.8	464.8	464.8
2.5°	469.0	464.1	466.6	466.0	463.4
5°	467.8	464.1	469.0	469.0	469.0
7.5°	465.3	462.7	469.7	472.2	472.9
10°	461.5	461.5	471.0	474.8	476.0
12.5°	456.5	458.3	471.0	476.6	479.7
15°	450.9	454.6	471.0	479.7	482.9
17.5°	443.9	450.2	469.7	480.4	484.8
20°	435.8	445.3	467.8	480.4	486.2
22.5°	426.9	439.0	465.3	479.2	486.2
25°	417.6	431.3	461.5	477.8	485.5
27.5°	406.2	423.9	457.1	476.0	484.8
30°	394.9	415.1	452.0	473.4	482.9
32.5°	382.3	405.6	445.8	469.7	480.4
35°	369.1	396.2	439.0	466.0	477.3
37.5°	355.8	384.8	432.0	460.9	473.4
40°	341.4	373.5	423.9	454.6	467.8
42.5°	330.7	361.6	415.1	448.3	462.2
45°	310.7	352.8	404.9	440.2	455.3
47.5°	294.9	335.8	394.9	432.0	447.6
50°	284.9	321.9	383.0	422.5	439.0
52.5°	261.0	312.6	371.6	413.2	430.7
55°	251.5	293.7	359.1	403.0	420.7
57.5°	225.7	280.5	346.5	391.8	410.0
60°	213.1	262.2	332.6	380.4	399.3
62.5°	193.6	246.6	318.8	367.9	387.4
65°	172.2	229.6	303.7	355.8	376.0
67.5°	152.2	212.6	289.3	343.3	364.7
70°	132.7	195.0	274.2	330.7	352.1
72.5°	110.0	177.3	259.6	318.8	340.2
75°	90.6	160.4	245.9	306.3	327.7
77.5°	71.6	144.1	232.6	294.9	316.3
80°	54.1	128.3	219.4	283.0	304.9
82.5°	37.7	115.0	207.5	271.7	293.0
85°	23.2	103.2	196.2	259.6	281.7
87.5°	10.7	92.5	184.8	248.4	271.0
90°	1.2	84.3	175.5	238.9	261.0
92.5°	0.7	81.8	171.7	234.5	255.9
95°	0.0	79.2	169.9	232.0	253.3
97.5°	0.0	76.7	165.4	228.2	250.3
100°	0.0	75.5	162.2	222.6	244.0
102.5°	0.0	73.6	158.5	217.5	238.9
105°	0.0	73.0	154.8	213.1	234.0
107.5°	0.0	71.6	150.9	207.5	228.2
110°	0.0	70.4	147.8	202.4	222.6



TEST NUMBER: P284735

CATALOG NUMBER: 4SNLED-LD5-29SL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	69.2	144.6	197.5	216.9
115°	0.0	67.9	140.8	191.7	210.6
117.5°	0.0	66.0	137.1	186.1	205.0
120°	0.0	63.5	133.4	181.1	198.7
122.5°	0.0	60.9	129.5	174.8	191.7
125°	0.0	58.5	125.1	169.2	185.5
127.5°	0.0	54.6	120.1	162.9	178.0
130°	0.0	50.9	113.9	156.6	171.0
132.5°	0.7	47.2	107.6	149.7	164.1
135°	0.0	43.4	100.6	142.7	155.9
137.5°	0.0	40.2	93.0	135.2	147.8
140°	0.0	36.5	85.5	126.4	139.7
142.5°	0.0	32.1	78.1	116.9	130.8
145°	0.0	28.3	70.4	106.9	122.0
147.5°	0.7	25.1	63.5	96.2	112.5
150°	0.7	22.6	56.7	85.5	101.8
152.5°	0.7	20.2	49.7	75.5	91.1
155°	0.7	17.6	43.4	65.3	81.1
157.5°	0.7	15.1	36.5	55.3	70.4
160°	0.7	13.2	30.2	46.5	60.4
162.5°	0.7	11.4	24.6	36.5	49.7
165°	0.7	9.5	19.5	27.0	38.3
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)