

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: P284573

Luminaire Tested: **2SNLED-LD5-30HL-SLW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284573
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: 2SNLED-LD5-30HL-SLW-UNV-L850-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3129.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Semi-Direct

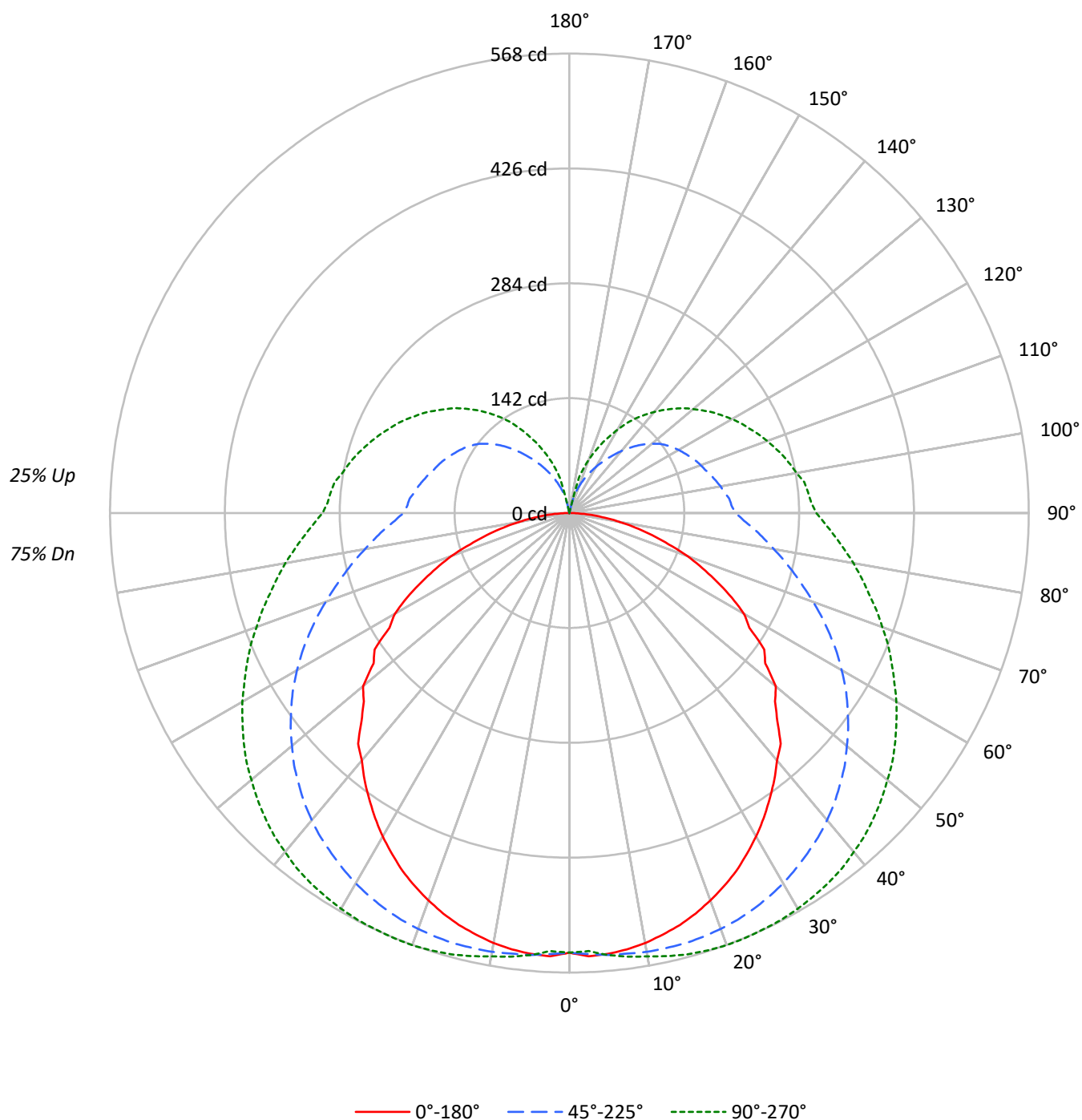
Input Watts (W): 27
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284573

CATALOG NUMBER: 2SNLED-LD5-30HL-SLW-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284573

CATALOG NUMBER: 2SNLED-LD5-30HL-SLW-UNV-L850-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	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°	8782	8782	8782
5°	8826	8662	8614
10°	8761	8571	8566
15°	8676	8510	8585
20°	8568	8455	8601
25°	8461	8410	8616
30°	8316	8369	8661
35°	8157	8323	8720
40°	8003	8300	8776
45°	7815	8262	8846
50°	7795	8225	8917
55°	7605	8202	9023
60°	7268	8183	9146
65°	6792	8163	9316
70°	6259	8186	9577
75°	5367	8329	9964
80°	4350	8662	10605
85°	2942	9372	11546



TEST NUMBER: P284573

CATALOG NUMBER: 2SNLED-LD5-30HL-SLW-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	1.7
10°-20°	154.8	4.9
20°-30°	246.0	7.9
30°-40°	315.7	10.1
40°-50°	356.5	11.4
50°-60°	363.8	11.6
60°-70°	337.1	10.8
70°-80°	285.3	9.1
80°-90°	227.8	7.3
90°-100°	193.4	6.2
100°-110°	172.3	5.5
110°-120°	146.8	4.7
120°-130°	116.6	3.7
130°-140°	82.7	2.6
140°-150°	49.4	1.6
150°-160°	23.0	0.7
160°-170°	5.5	0.2
170°-180°	0.0	0.0
0°-30°	453.0	14.5
0°-40°	768.8	24.6
0°-60°	1489.1	47.6
0°-90°	2339.3	74.8
90°-120°	512.5	16.4
90°-150°	761.2	24.3
90°-180°	790.0	25.2
0°-180°	3129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	543	543	543	543	543	
5°	547	543	548	548	548	52
15°	527	532	551	561	565	149
25°	488	504	540	559	568	225
35°	432	463	513	545	558	270
45°	363	412	473	515	532	282
55°	294	343	420	471	492	258
65°	201	268	355	416	440	200
75°	106	188	288	358	383	113
85°	27	121	229	304	329	30
90°	1	99	205	279	305	2
95°	0	93	199	271	296	0
105°	0	85	181	249	274	0
115°	0	79	165	224	246	0
125°	0	68	146	198	217	0
135°	0	51	118	167	182	0
145°	0	33	82	125	143	0
155°	1	21	51	76	95	0
165°	1	11	23	32	45	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284573

CATALOG NUMBER: 2SNLED-LD5-30HL-SLW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	543.4	543.4	543.4	543.4	543.4
2.5°	548.4	542.7	545.6	544.8	541.9
5°	547.0	542.7	548.4	548.4	548.4
7.5°	544.0	541.1	549.2	552.2	553.0
10°	539.7	539.7	550.8	555.2	556.5
12.5°	533.7	535.9	550.8	557.3	560.9
15°	527.2	531.5	550.8	560.9	564.7
17.5°	519.0	526.4	549.2	561.7	566.9
20°	509.5	520.6	547.0	561.7	568.4
22.5°	499.2	513.3	544.0	560.3	568.4
25°	488.3	504.4	539.7	558.7	567.7
27.5°	475.0	495.6	534.5	556.5	566.9
30°	461.7	485.3	528.6	553.6	564.7
32.5°	447.0	474.2	521.2	549.2	561.7
35°	431.5	463.3	513.3	544.8	558.1
37.5°	416.1	450.0	505.2	538.9	553.6
40°	399.2	436.7	495.6	531.5	547.0
42.5°	386.7	422.8	485.3	524.2	540.5
45°	363.3	412.5	473.4	514.7	532.3
47.5°	344.8	392.7	461.7	505.2	523.4
50°	333.1	376.4	447.8	494.0	513.3
52.5°	305.2	365.5	434.5	483.1	503.6
55°	294.0	343.4	419.8	471.2	491.9
57.5°	263.9	328.0	405.2	458.1	479.4
60°	249.2	306.5	388.9	444.8	466.9
62.5°	226.4	288.3	372.8	430.2	453.0
65°	201.4	268.5	355.2	416.1	439.7
67.5°	178.0	248.6	338.3	401.4	426.4
70°	155.2	228.0	320.6	386.7	411.7
72.5°	128.6	207.3	303.6	372.8	397.8
75°	106.0	187.5	287.5	358.1	383.1
77.5°	83.7	168.5	272.0	344.8	369.8
80°	63.3	150.0	256.5	330.9	356.5
82.5°	44.0	134.5	242.7	317.7	342.7
85°	27.2	120.6	229.4	303.6	329.4
87.5°	12.5	108.1	216.1	290.5	316.9
90°	1.4	98.6	205.2	279.4	305.2
92.5°	0.8	95.6	200.8	274.2	299.2
95°	0.0	92.7	198.6	271.2	296.2
97.5°	0.0	89.7	193.5	266.9	292.7
100°	0.0	88.3	189.7	260.3	285.3
102.5°	0.0	86.1	185.3	254.4	279.4
105°	0.0	85.3	181.0	249.2	273.6
107.5°	0.0	83.7	176.4	242.7	266.9
110°	0.0	82.3	172.8	236.7	260.3



TEST NUMBER: P284573

CATALOG NUMBER: 2SNLED-LD5-30HL-SLW-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	81.0	169.0	231.0	253.6
115°	0.0	79.4	164.7	224.2	246.2
117.5°	0.0	77.2	160.3	217.7	239.7
120°	0.0	74.2	156.0	211.7	232.3
122.5°	0.0	71.2	151.4	204.4	224.2
125°	0.0	68.5	146.2	197.8	216.9
127.5°	0.0	63.9	140.5	190.5	208.1
130°	0.0	59.5	133.1	183.1	200.0
132.5°	0.8	55.2	125.8	175.0	191.9
135°	0.0	50.8	117.7	166.9	182.3
137.5°	0.0	47.0	108.7	158.1	172.8
140°	0.0	42.7	100.0	147.8	163.3
142.5°	0.0	37.5	91.3	136.7	153.0
145°	0.0	33.1	82.3	125.0	142.7
147.5°	0.8	29.4	74.2	112.5	131.5
150°	0.8	26.4	66.3	100.0	119.0
152.5°	0.8	23.6	58.1	88.3	106.5
155°	0.8	20.6	50.8	76.4	94.8
157.5°	0.8	17.7	42.7	64.7	82.3
160°	0.8	15.5	35.3	54.4	70.6
162.5°	0.8	13.3	28.8	42.7	58.1
165°	0.8	11.1	22.8	31.5	44.8
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)