

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: P284714

Luminaire Tested: **8SNLED-LD5-58SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284714
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: 8SNLED-LD5-58SL-SLW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5020.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

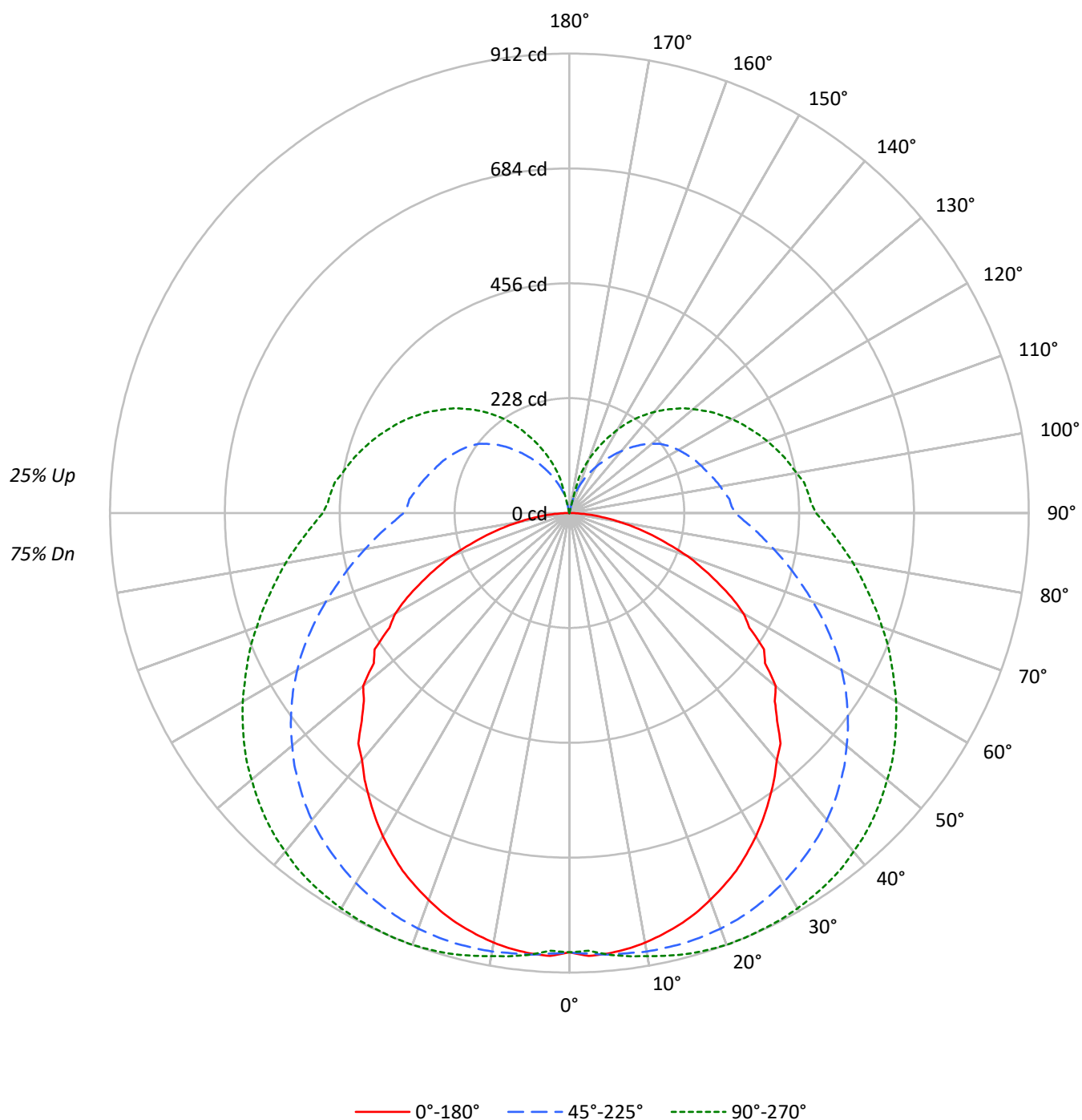
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3523	3523	3523
5°	3555	3484	3455
10°	3542	3457	3436
15°	3523	3442	3443
20°	3495	3429	3450
25°	3467	3419	3455
30°	3425	3412	3474
35°	3378	3403	3497
40°	3335	3404	3520
45°	3279	3400	3548
50°	3298	3397	3576
55°	3251	3402	3619
60°	3146	3409	3668
65°	2989	3420	3736
70°	2819	3454	3841
75°	2508	3544	3997
80°	2169	3729	4254
85°	1715	4101	4630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	1.7
10°-20°	248.3	4.9
20°-30°	394.7	7.9
30°-40°	506.6	10.1
40°-50°	572.0	11.4
50°-60°	583.7	11.6
60°-70°	540.8	10.8
70°-80°	457.8	9.1
80°-90°	365.4	7.3
90°-100°	310.3	6.2
100°-110°	276.5	5.5
110°-120°	235.5	4.7
120°-130°	187.0	3.7
130°-140°	132.7	2.6
140°-150°	79.2	1.6
150°-160°	36.9	0.7
160°-170°	8.8	0.2
170°-180°	0.0	0.0
0°-30°	726.8	14.5
0°-40°	1233.4	24.6
0°-60°	2389.1	47.6
0°-90°	3753.1	74.8
90°-120°	822.3	16.4
90°-150°	1221.2	24.3
90°-180°	1267.0	25.2
0°-180°	5020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	878	871	880	880	880	83
15°	846	853	884	900	906	239
25°	783	809	866	896	911	361
35°	692	743	824	874	895	433
45°	583	662	760	826	854	453
55°	472	551	674	756	789	414
65°	323	431	570	668	705	321
75°	170	301	461	575	615	181
85°	44	194	368	487	528	48
90°	2	158	329	448	490	4
95°	0	149	319	435	475	0
105°	0	137	290	400	439	0
115°	0	127	264	360	395	0
125°	0	110	235	317	348	0
135°	0	82	189	268	292	0
145°	0	53	132	200	229	1
155°	1	33	82	123	152	1
165°	1	18	37	51	72	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°	871.9	871.9	871.9	871.9	871.9
2.5°	879.8	870.6	875.4	874.1	869.3
5°	877.6	870.6	879.8	879.8	879.8
7.5°	872.8	868.1	881.1	885.9	887.2
10°	865.8	865.8	883.7	890.7	892.9
12.5°	856.3	859.8	883.7	894.2	899.9
15°	845.8	852.8	883.7	899.9	905.9
17.5°	832.7	844.5	881.1	901.2	909.4
20°	817.4	835.3	877.6	901.2	912.0
22.5°	800.9	823.5	872.8	898.9	912.0
25°	783.4	809.2	865.8	896.4	910.7
27.5°	762.1	795.2	857.6	892.9	909.4
30°	740.7	778.6	848.0	888.1	905.9
32.5°	717.2	760.8	836.2	881.1	901.2
35°	692.3	743.3	823.5	874.1	895.4
37.5°	667.5	722.0	810.4	864.6	888.1
40°	640.5	700.6	795.2	852.8	877.6
42.5°	620.4	678.3	778.6	841.0	867.1
45°	582.8	661.8	759.5	825.7	854.1
47.5°	553.2	630.0	740.7	810.4	839.7
50°	534.5	603.9	718.4	792.6	823.5
52.5°	489.6	586.3	697.1	775.1	807.9
55°	471.8	551.0	673.6	756.0	789.1
57.5°	423.4	526.2	650.0	735.0	769.1
60°	399.8	491.8	623.9	713.7	749.0
62.5°	363.2	462.5	598.1	690.1	726.7
65°	323.1	430.7	569.8	667.5	705.4
67.5°	285.5	398.9	542.7	644.0	684.1
70°	248.9	365.7	514.4	620.4	660.5
72.5°	206.3	332.6	487.0	598.1	638.2
75°	170.0	300.8	461.2	574.6	614.7
77.5°	134.3	270.3	436.4	553.2	593.3
80°	101.5	240.7	411.6	531.0	572.0
82.5°	70.7	215.8	389.3	509.6	549.7
85°	43.6	193.5	368.0	487.0	528.4
87.5°	20.1	173.5	346.7	466.0	508.4
90°	2.2	158.2	329.1	448.2	489.6
92.5°	1.3	153.4	322.1	439.9	480.0
95°	0.0	148.7	318.6	435.1	475.3
97.5°	0.0	143.9	310.4	428.1	469.5
100°	0.0	141.7	304.3	417.6	457.7
102.5°	0.0	138.2	297.3	408.1	448.2
105°	0.0	136.9	290.3	399.8	439.0
107.5°	0.0	134.3	283.0	389.3	428.1
110°	0.0	132.1	277.3	379.8	417.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	129.9	271.2	370.5	406.8
115°	0.0	127.3	264.2	359.7	395.0
117.5°	0.0	123.8	257.2	349.2	384.5
120°	0.0	119.1	250.2	339.6	372.8
122.5°	0.0	114.3	242.9	327.9	359.7
125°	0.0	109.8	234.6	317.4	347.9
127.5°	0.0	102.5	225.4	305.6	333.9
130°	0.0	95.5	213.6	293.8	320.9
132.5°	1.3	88.5	201.8	280.8	307.8
135°	0.0	81.5	188.8	267.7	292.5
137.5°	0.0	75.4	174.4	253.7	277.3
140°	0.0	68.4	160.4	237.1	262.0
142.5°	0.0	60.2	146.4	219.3	245.4
145°	0.0	53.2	132.1	200.5	228.9
147.5°	1.3	47.1	119.1	180.5	211.0
150°	1.3	42.3	106.3	160.4	191.0
152.5°	1.3	37.9	93.3	141.7	170.9
155°	1.3	33.1	81.5	122.6	152.2
157.5°	1.3	28.3	68.4	103.8	132.1
160°	1.3	24.8	56.7	87.2	113.3
162.5°	1.3	21.3	46.2	68.4	93.3
165°	1.3	17.8	36.6	50.6	71.9
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)