

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: P284753

Luminaire Tested: **8SNLED-LD5-58SL-SLW-UNV-L950-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: P284753
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-L950-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: 5351.0 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: 8' x H: 0.12')
CIE Type: Semi-Direct

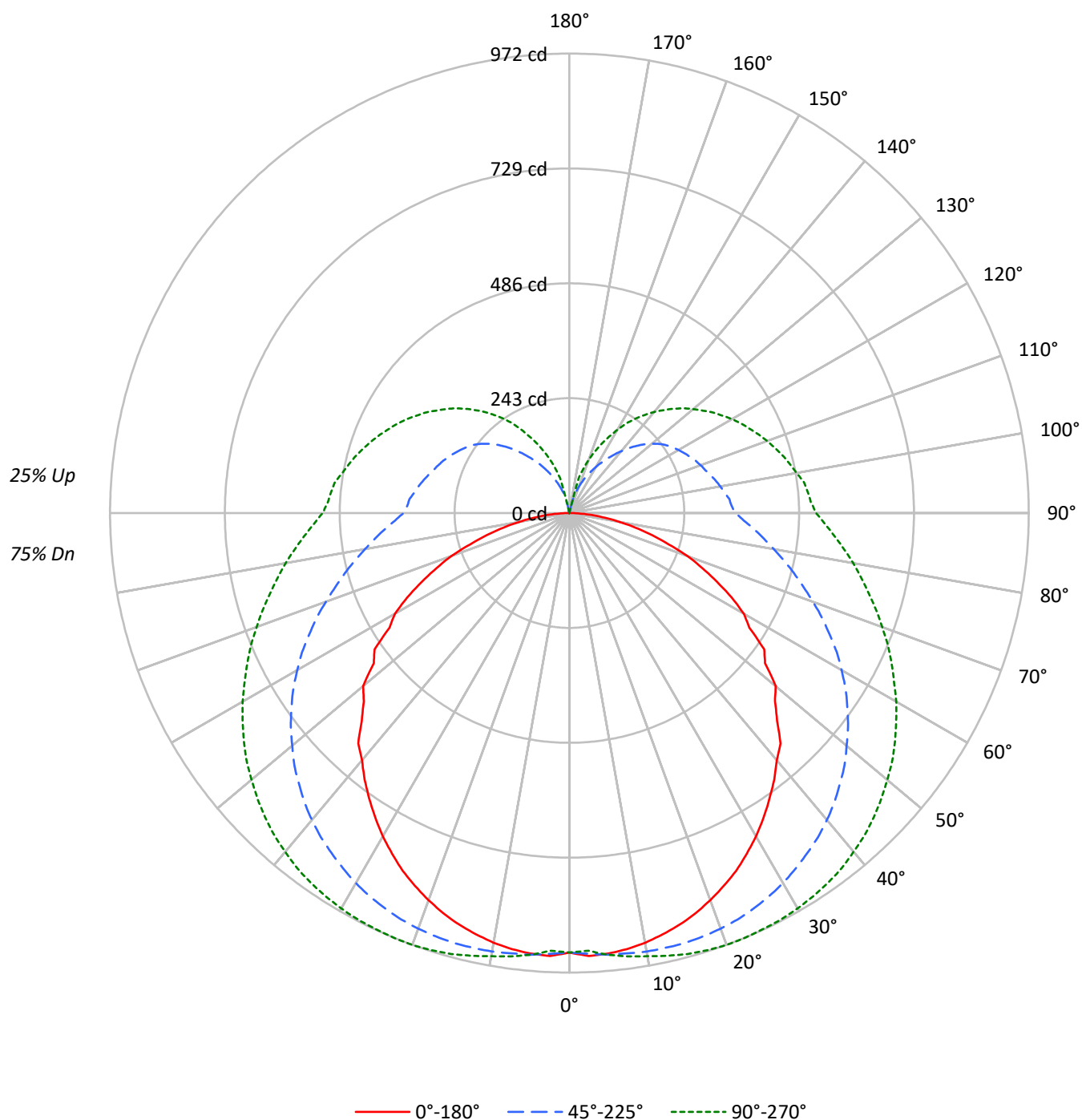
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	3755	3755	3755
5°	3789	3714	3683
10°	3776	3685	3663
15°	3755	3668	3670
20°	3725	3655	3677
25°	3696	3645	3683
30°	3651	3637	3703
35°	3601	3628	3728
40°	3554	3629	3752
45°	3496	3624	3782
50°	3516	3621	3812
55°	3465	3626	3857
60°	3353	3634	3910
65°	3186	3646	3983
70°	3005	3681	4095
75°	2673	3778	4260
80°	2313	3975	4534
85°	1829	4371	4936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	1.7
10°-20°	264.7	4.9
20°-30°	420.7	7.9
30°-40°	540.0	10.1
40°-50°	609.8	11.4
50°-60°	622.2	11.6
60°-70°	576.4	10.8
70°-80°	488.0	9.1
80°-90°	389.5	7.3
90°-100°	330.8	6.2
100°-110°	294.7	5.5
110°-120°	251.0	4.7
120°-130°	199.4	3.7
130°-140°	141.4	2.6
140°-150°	84.4	1.6
150°-160°	39.4	0.7
160°-170°	9.4	0.2
170°-180°	0.0	0.0
0°-30°	774.7	14.5
0°-40°	1314.7	24.6
0°-60°	2546.6	47.6
0°-90°	4000.6	74.8
90°-120°	876.5	16.4
90°-150°	1301.7	24.3
90°-180°	1350.0	25.2
0°-180°	5351.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	936	928	938	938	938	89
15°	902	909	942	959	966	254
25°	835	862	923	956	971	384
35°	738	792	878	932	954	462
45°	621	705	810	880	910	482
55°	503	587	718	806	841	442
65°	344	459	607	712	752	342
75°	181	321	492	612	655	193
85°	46	206	392	519	563	51
90°	2	169	351	478	522	4
95°	0	158	340	464	507	0
105°	0	146	309	426	468	0
115°	0	136	282	383	421	0
125°	0	117	250	338	371	0
135°	0	87	201	285	312	0
145°	0	57	141	214	244	1
155°	1	35	87	131	162	1
165°	1	19	39	54	77	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°	929.4	929.4	929.4	929.4	929.4
2.5°	937.9	928.0	933.1	931.7	926.7
5°	935.5	928.0	937.9	937.9	937.9
7.5°	930.4	925.3	939.2	944.3	945.7
10°	922.9	922.9	941.9	949.4	951.8
12.5°	912.7	916.5	941.9	953.1	959.2
15°	901.5	909.0	941.9	959.2	965.7
17.5°	887.6	900.2	939.2	960.6	969.4
20°	871.3	890.3	935.5	960.6	972.1
22.5°	853.7	877.8	930.4	958.2	972.1
25°	835.0	862.5	922.9	955.5	970.8
27.5°	812.3	847.6	914.1	951.8	969.4
30°	789.6	830.0	903.9	946.7	965.7
32.5°	764.5	810.9	891.4	939.2	960.6
35°	738.0	792.3	877.8	931.7	954.5
37.5°	711.5	769.6	863.9	921.6	946.7
40°	682.7	746.8	847.6	909.0	935.5
42.5°	661.3	723.1	830.0	896.5	924.3
45°	621.3	705.4	809.6	880.2	910.4
47.5°	589.7	671.5	789.6	863.9	895.1
50°	569.7	643.7	765.8	844.9	877.8
52.5°	521.9	625.0	743.1	826.2	861.2
55°	502.9	587.3	718.0	805.9	841.1
57.5°	451.3	560.9	692.9	783.5	819.8
60°	426.2	524.2	665.0	760.7	798.4
62.5°	387.2	493.0	637.6	735.6	774.6
65°	344.4	459.1	607.4	711.5	751.9
67.5°	304.4	425.2	578.5	686.4	729.2
70°	265.3	389.9	548.3	661.3	704.1
72.5°	219.9	354.6	519.1	637.6	680.3
75°	181.2	320.6	491.7	612.5	655.2
77.5°	143.2	288.1	465.2	589.7	632.5
80°	108.2	256.5	438.7	566.0	609.7
82.5°	75.3	230.1	415.0	543.2	586.0
85°	46.5	206.3	392.2	519.1	563.3
87.5°	21.4	184.9	369.5	496.7	541.9
90°	2.4	168.6	350.8	477.7	521.9
92.5°	1.4	163.5	343.4	468.9	511.7
95°	0.0	158.5	339.6	463.8	506.6
97.5°	0.0	153.4	330.8	456.4	500.5
100°	0.0	151.0	324.4	445.2	487.9
102.5°	0.0	147.3	316.9	435.0	477.7
105°	0.0	145.9	309.4	426.2	467.9
107.5°	0.0	143.2	301.6	415.0	456.4
110°	0.0	140.8	295.5	404.8	445.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	138.4	289.1	395.0	433.6
115°	0.0	135.7	281.6	383.4	421.1
117.5°	0.0	132.0	274.2	372.2	409.9
120°	0.0	126.9	266.7	362.0	397.3
122.5°	0.0	121.8	258.9	349.5	383.4
125°	0.0	117.1	250.1	338.3	370.9
127.5°	0.0	109.3	240.2	325.7	355.9
130°	0.0	101.8	227.7	313.2	342.0
132.5°	1.4	94.3	215.1	299.3	328.1
135°	0.0	86.9	201.2	285.4	311.8
137.5°	0.0	80.4	185.9	270.4	295.5
140°	0.0	73.0	171.0	252.8	279.3
142.5°	0.0	64.1	156.1	233.8	261.6
145°	0.0	56.7	140.8	213.8	244.0
147.5°	1.4	50.2	126.9	192.4	225.0
150°	1.4	45.1	113.3	171.0	203.6
152.5°	1.4	40.4	99.4	151.0	182.2
155°	1.4	35.3	86.9	130.6	162.2
157.5°	1.4	30.2	73.0	110.6	140.8
160°	1.4	26.5	60.4	93.0	120.8
162.5°	1.4	22.7	49.2	73.0	99.4
165°	1.4	19.0	39.0	54.0	76.7
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)