

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: P284519

Luminaire Tested: **8SNLED-LD5-58SL-SLW-UNV-L835-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: P284519
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-L835-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: 5838.0 lumens
Efficiency: N/A
Efficacy: 116.8 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

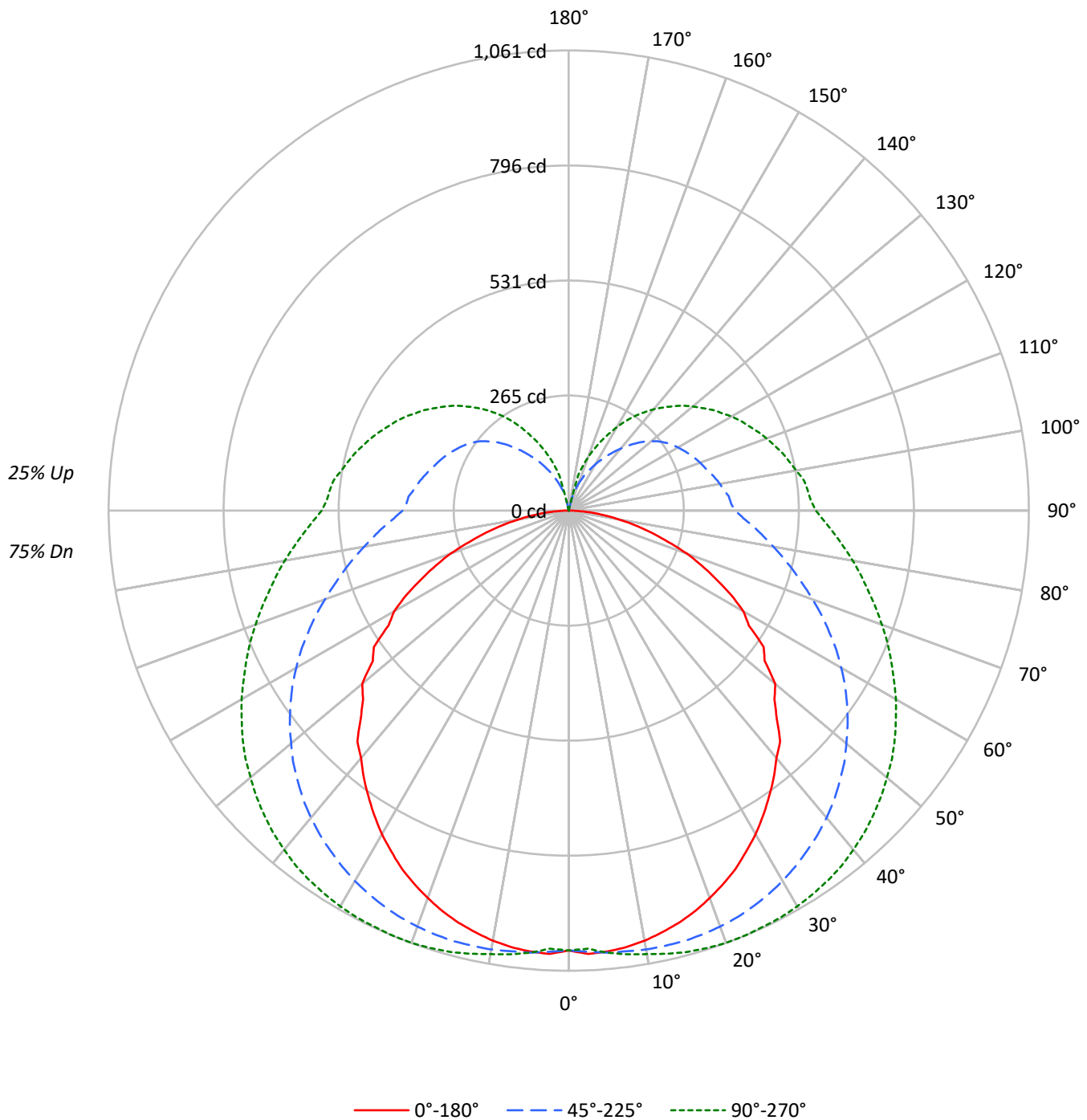
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4097	4097	4097
5°	4134	4052	4018
10°	4120	4020	3996
15°	4097	4002	4004
20°	4064	3987	4012
25°	4032	3976	4018
30°	3983	3968	4040
35°	3929	3958	4067
40°	3878	3959	4094
45°	3813	3954	4126
50°	3835	3950	4159
55°	3780	3956	4209
60°	3659	3965	4266
65°	3475	3977	4345
70°	3279	4016	4467
75°	2916	4121	4648
80°	2524	4337	4947
85°	1994	4768	5385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	1.7
10°-20°	288.8	4.9
20°-30°	459.0	7.9
30°-40°	589.1	10.1
40°-50°	665.2	11.4
50°-60°	678.8	11.6
60°-70°	628.9	10.8
70°-80°	532.4	9.1
80°-90°	425.0	7.3
90°-100°	360.9	6.2
100°-110°	321.5	5.5
110°-120°	273.8	4.7
120°-130°	217.5	3.7
130°-140°	154.3	2.6
140°-150°	92.1	1.6
150°-160°	43.0	0.7
160°-170°	10.2	0.2
170°-180°	0.0	0.0
0°-30°	845.2	14.5
0°-40°	1434.3	24.6
0°-60°	2778.4	47.6
0°-90°	4364.6	74.8
90°-120°	956.2	16.4
90°-150°	1420.2	24.3
90°-180°	1473.0	25.2
0°-180°	5838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	1021	1012	1023	1023	1023	97
15°	984	992	1028	1046	1054	277
25°	911	941	1007	1042	1059	419
35°	805	864	958	1016	1041	504
45°	678	770	883	960	993	526
55°	549	641	783	879	918	482
65°	376	501	663	776	820	373
75°	198	350	536	668	715	210
85°	51	225	428	566	614	55
90°	3	184	383	521	569	4
95°	0	173	371	506	553	0
105°	0	159	338	465	510	0
115°	0	148	307	418	459	0
125°	0	128	273	369	405	0
135°	0	95	220	311	340	0
145°	0	62	154	233	266	1
155°	2	38	95	142	177	1
165°	2	21	43	59	84	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°	1014.0	1014.0	1014.0	1014.0	1014.0
2.5°	1023.2	1012.5	1018.0	1016.5	1011.0
5°	1020.6	1012.5	1023.2	1023.2	1023.2
7.5°	1015.1	1009.5	1024.7	1030.2	1031.7
10°	1006.9	1006.9	1027.6	1035.8	1038.4
12.5°	995.8	999.9	1027.6	1039.9	1046.5
15°	983.6	991.7	1027.6	1046.5	1053.6
17.5°	968.4	982.1	1024.7	1048.0	1057.6
20°	950.6	971.4	1020.6	1048.0	1060.6
22.5°	931.4	957.7	1015.1	1045.4	1060.6
25°	911.0	941.0	1006.9	1042.5	1059.1
27.5°	886.2	924.7	997.3	1038.4	1057.6
30°	861.4	905.5	986.2	1032.8	1053.6
32.5°	834.0	884.8	972.5	1024.7	1048.0
35°	805.2	864.4	957.7	1016.5	1041.3
37.5°	776.3	839.6	942.5	1005.4	1032.8
40°	744.8	814.8	924.7	991.7	1020.6
42.5°	721.5	788.9	905.5	978.0	1008.4
45°	677.8	769.6	883.3	960.3	993.2
47.5°	643.4	732.6	861.4	942.5	976.6
50°	621.5	702.3	835.5	921.8	957.7
52.5°	569.4	681.9	810.7	901.4	939.5
55°	548.6	640.8	783.3	879.2	917.7
57.5°	492.4	611.9	755.9	854.8	894.4
60°	465.0	571.9	725.6	830.0	871.1
62.5°	422.4	537.9	695.6	802.6	845.1
65°	375.7	500.9	662.6	776.3	820.3
67.5°	332.1	463.8	631.2	748.9	795.5
70°	289.5	425.3	598.2	721.5	768.1
72.5°	239.9	386.8	566.4	695.6	742.2
75°	197.7	349.8	536.4	668.2	714.8
77.5°	156.2	314.3	507.5	643.4	690.0
80°	118.1	279.9	478.7	617.5	665.2
82.5°	82.2	251.0	452.7	592.7	639.3
85°	50.7	225.1	427.9	566.4	614.5
87.5°	23.3	201.8	403.1	542.0	591.2
90°	2.6	184.0	382.8	521.2	569.4
92.5°	1.5	178.4	374.6	511.6	558.2
95°	0.0	172.9	370.6	506.0	552.7
97.5°	0.0	167.3	360.9	497.9	546.0
100°	0.0	164.7	353.9	485.7	532.3
102.5°	0.0	160.7	345.8	474.6	521.2
105°	0.0	159.2	337.6	465.0	510.5
107.5°	0.0	156.2	329.1	452.7	497.9
110°	0.0	153.6	322.4	441.6	485.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	151.0	315.4	430.9	473.1
115°	0.0	148.1	307.3	418.3	459.4
117.5°	0.0	144.0	299.1	406.1	447.2
120°	0.0	138.5	291.0	395.0	433.5
122.5°	0.0	132.9	282.5	381.3	418.3
125°	0.0	127.7	272.8	369.1	404.6
127.5°	0.0	119.2	262.1	355.4	388.3
130°	0.0	111.1	248.4	341.7	373.2
132.5°	1.5	102.9	234.7	326.5	358.0
135°	0.0	94.8	219.5	311.3	340.2
137.5°	0.0	87.7	202.9	295.0	322.4
140°	0.0	79.6	186.6	275.8	304.7
142.5°	0.0	70.0	170.3	255.1	285.4
145°	0.0	61.8	153.6	233.2	266.2
147.5°	1.5	54.8	138.5	209.9	245.4
150°	1.5	49.2	123.6	186.6	222.1
152.5°	1.5	44.1	108.5	164.7	198.8
155°	1.5	38.5	94.8	142.5	177.0
157.5°	1.5	32.9	79.6	120.7	153.6
160°	1.5	28.9	65.9	101.4	131.8
162.5°	1.5	24.8	53.7	79.6	108.5
165°	1.5	20.7	42.6	58.9	83.7
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)