

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: P284480

Luminaire Tested: **8SNLED-LD5-58SL-SLW-UNV-L830-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: P284480
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-L830-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: 5739.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

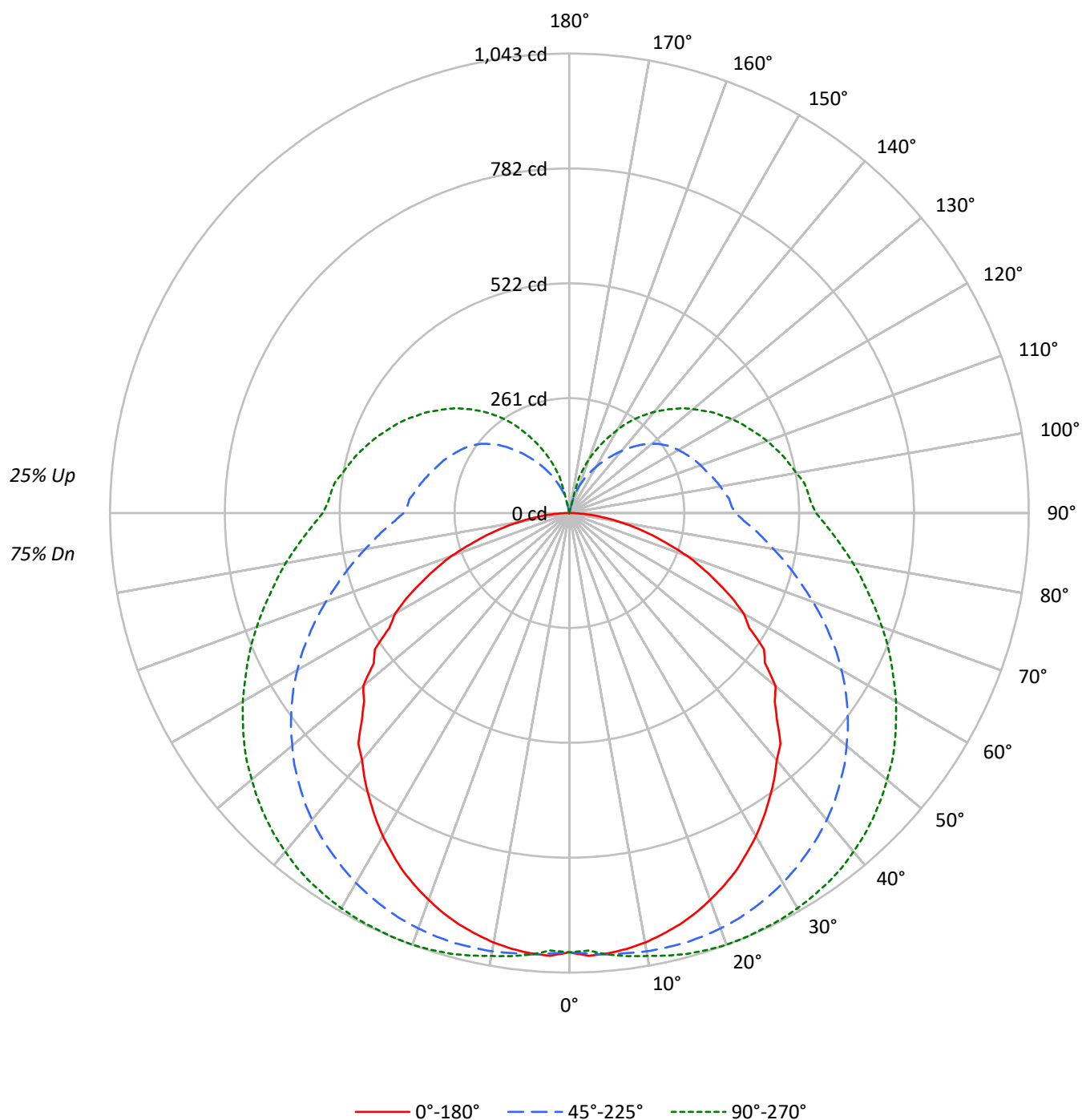
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4028	4028	4028
5°	4064	3984	3950
10°	4050	3952	3928
15°	4028	3934	3936
20°	3995	3920	3944
25°	3964	3909	3950
30°	3915	3901	3971
35°	3862	3890	3998
40°	3812	3892	4024
45°	3749	3887	4057
50°	3770	3884	4089
55°	3716	3889	4137
60°	3596	3898	4193
65°	3417	3910	4271
70°	3224	3948	4391
75°	2866	4051	4569
80°	2482	4263	4864
85°	1963	4688	5294



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	1.7
10°-20°	283.9	4.9
20°-30°	451.2	7.9
30°-40°	579.1	10.1
40°-50°	654.0	11.4
50°-60°	667.3	11.6
60°-70°	618.2	10.8
70°-80°	523.4	9.1
80°-90°	417.8	7.3
90°-100°	354.8	6.2
100°-110°	316.1	5.5
110°-120°	269.2	4.7
120°-130°	213.8	3.7
130°-140°	151.7	2.6
140°-150°	90.6	1.6
150°-160°	42.2	0.7
160°-170°	10.0	0.2
170°-180°	0.0	0.0
0°-30°	830.9	14.5
0°-40°	1410.0	24.6
0°-60°	2731.3	47.6
0°-90°	4290.6	74.8
90°-120°	940.0	16.4
90°-150°	1396.1	24.3
90°-180°	1448.0	25.2
0°-180°	5739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	1003	995	1006	1006	1006	95
15°	967	975	1010	1029	1036	273
25°	896	925	990	1025	1041	412
35°	792	850	941	999	1024	496
45°	666	757	868	944	976	517
55°	539	630	770	864	902	474
65°	369	492	651	763	806	367
75°	194	344	527	657	703	207
85°	50	221	421	557	604	54
90°	2	181	376	512	560	4
95°	0	170	364	498	543	0
105°	0	156	332	457	502	0
115°	0	146	302	411	452	0
125°	0	126	268	363	398	0
135°	0	93	216	306	334	0
145°	0	61	151	229	262	1
155°	2	38	93	140	174	1
165°	2	20	42	58	82	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°	996.8	996.8	996.8	996.8	996.8
2.5°	1005.9	995.3	1000.8	999.3	993.8
5°	1003.3	995.3	1005.9	1005.9	1005.9
7.5°	997.8	992.4	1007.3	1012.8	1014.2
10°	989.8	989.8	1010.2	1018.2	1020.8
12.5°	978.9	982.9	1010.2	1022.2	1028.8
15°	966.9	974.9	1010.2	1028.8	1035.7
17.5°	952.0	965.5	1007.3	1030.2	1039.7
20°	934.5	954.9	1003.3	1030.2	1042.6
22.5°	915.6	941.4	997.8	1027.7	1042.6
25°	895.6	925.1	989.8	1024.8	1041.2
27.5°	871.2	909.1	980.4	1020.8	1039.7
30°	846.8	890.1	969.5	1015.3	1035.7
32.5°	819.9	869.8	956.0	1007.3	1030.2
35°	791.5	849.7	941.4	999.3	1023.7
37.5°	763.1	825.4	926.5	988.4	1015.3
40°	732.2	801.0	909.1	974.9	1003.3
42.5°	709.3	775.5	890.1	961.5	991.3
45°	666.3	756.6	868.3	944.0	976.4
47.5°	632.5	720.2	846.8	926.5	960.0
50°	611.0	690.3	821.4	906.1	941.4
52.5°	559.7	670.3	797.0	886.1	923.6
55°	539.3	629.9	770.0	864.3	902.1
57.5°	484.0	601.5	743.1	840.3	879.2
60°	457.1	562.2	713.3	815.9	856.3
62.5°	415.2	528.8	683.8	789.0	830.8
65°	369.4	492.4	651.4	763.1	806.4
67.5°	326.4	456.0	620.5	736.2	782.0
70°	284.6	418.1	588.1	709.3	755.1
72.5°	235.8	380.3	556.8	683.8	729.6
75°	194.3	343.9	527.3	656.9	702.7
77.5°	153.6	309.0	498.9	632.5	678.3
80°	116.1	275.1	470.5	607.0	654.0
82.5°	80.8	246.7	445.1	582.6	628.5
85°	49.9	221.3	420.7	556.8	604.1
87.5°	22.9	198.3	396.3	532.8	581.2
90°	2.5	180.9	376.3	512.4	559.7
92.5°	1.5	175.4	368.3	502.9	548.8
95°	0.0	169.9	364.3	497.5	543.3
97.5°	0.0	164.5	354.8	489.5	536.8
100°	0.0	161.9	347.9	477.5	523.3
102.5°	0.0	157.9	339.9	466.5	512.4
105°	0.0	156.5	331.9	457.1	501.8
107.5°	0.0	153.6	323.5	445.1	489.5
110°	0.0	151.0	317.0	434.1	477.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	148.5	310.1	423.6	465.1
115°	0.0	145.6	302.0	411.2	451.6
117.5°	0.0	141.6	294.0	399.2	439.6
120°	0.0	136.1	286.0	388.3	426.1
122.5°	0.0	130.6	277.7	374.8	411.2
125°	0.0	125.5	268.2	362.8	397.8
127.5°	0.0	117.2	257.6	349.4	381.7
130°	0.0	109.2	244.2	335.9	366.8
132.5°	1.5	101.2	230.7	321.0	351.9
135°	0.0	93.2	215.8	306.1	334.4
137.5°	0.0	86.2	199.4	290.0	317.0
140°	0.0	78.2	183.4	271.1	299.5
142.5°	0.0	68.8	167.4	250.7	280.6
145°	0.0	60.8	151.0	229.3	261.7
147.5°	1.5	53.9	136.1	206.3	241.3
150°	1.5	48.4	121.5	183.4	218.3
152.5°	1.5	43.3	106.6	161.9	195.4
155°	1.5	37.8	93.2	140.1	174.0
157.5°	1.5	32.4	78.2	118.6	151.0
160°	1.5	28.4	64.8	99.7	129.6
162.5°	1.5	24.4	52.8	78.2	106.6
165°	1.5	20.4	41.8	57.9	82.2
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)