

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: P284636

Luminaire Tested: **8SNLED-LD5-58SL-SLW-UNV-L930-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: P284636
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-L930-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: 4620.1 lumens
Efficiency: N/A
Efficacy: 92.4 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

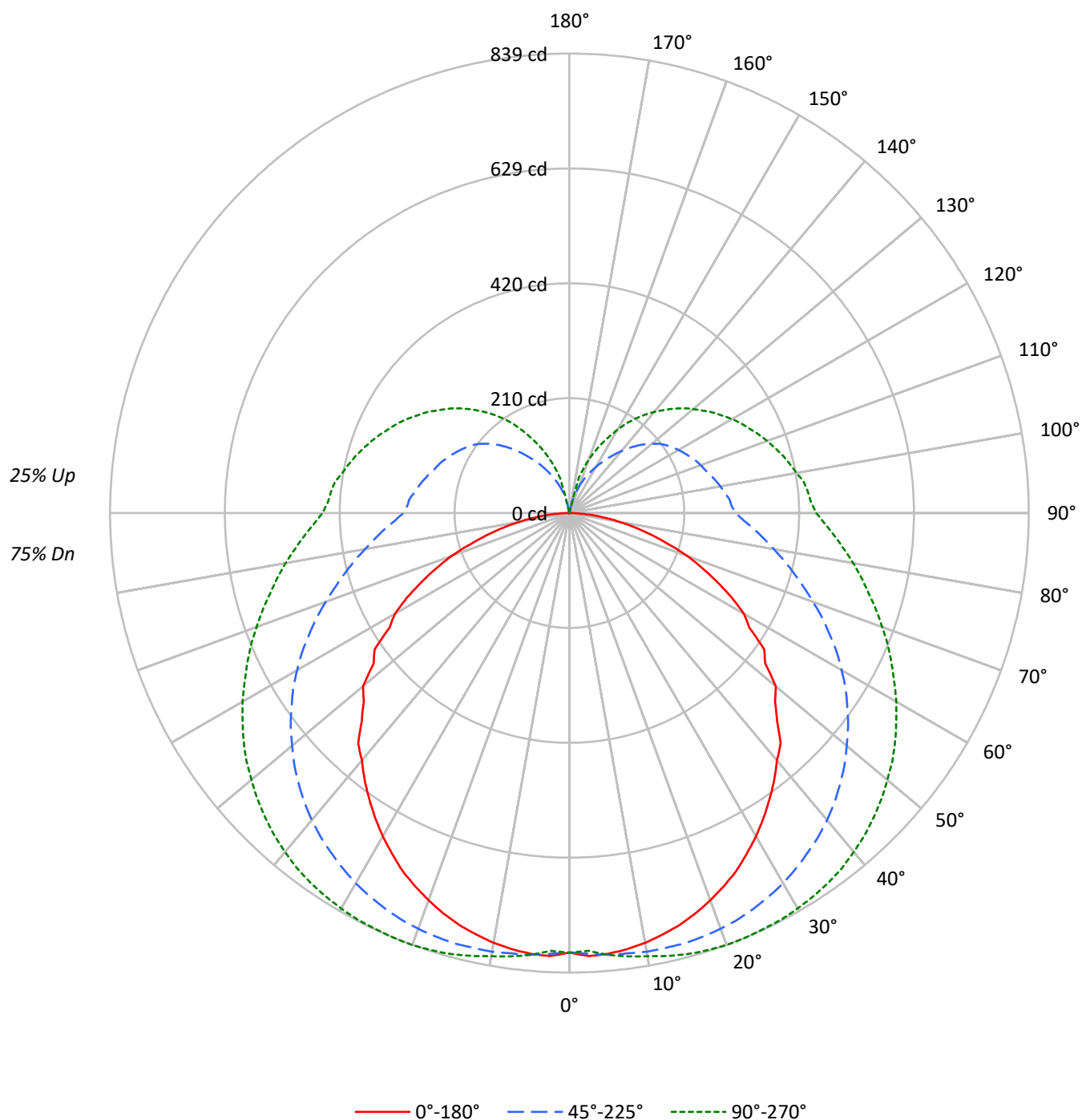
Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	3242	3242	3242
5°	3272	3207	3180
10°	3260	3181	3162
15°	3243	3167	3169
20°	3216	3155	3175
25°	3191	3147	3180
30°	3152	3140	3197
35°	3109	3132	3219
40°	3069	3133	3240
45°	3018	3129	3266
50°	3036	3126	3292
55°	2992	3131	3330
60°	2895	3138	3376
65°	2751	3147	3439
70°	2595	3178	3535
75°	2307	3262	3678
80°	1998	3432	3915
85°	1577	3774	4261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.7
10°-20°	228.5	4.9
20°-30°	363.2	7.9
30°-40°	466.2	10.1
40°-50°	526.5	11.4
50°-60°	537.2	11.6
60°-70°	497.7	10.8
70°-80°	421.3	9.1
80°-90°	336.3	7.3
90°-100°	285.6	6.2
100°-110°	254.5	5.5
110°-120°	216.7	4.7
120°-130°	172.1	3.7
130°-140°	122.1	2.6
140°-150°	72.9	1.6
150°-160°	34.0	0.7
160°-170°	8.1	0.2
170°-180°	0.0	0.0
0°-30°	668.9	14.5
0°-40°	1135.1	24.6
0°-60°	2198.7	47.6
0°-90°	3454.1	74.8
90°-120°	756.8	16.4
90°-150°	1123.9	24.3
90°-180°	1166.0	25.2
0°-180°	4620.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	808	801	810	810	810	77
15°	778	785	813	828	834	220
25°	721	745	797	825	838	332
35°	637	684	758	804	824	399
45°	536	609	699	760	786	417
55°	434	507	620	696	726	381
65°	297	396	524	614	649	295
75°	156	277	424	529	566	166
85°	40	178	339	448	486	44
90°	2	146	303	412	451	3
95°	0	137	293	400	437	0
105°	0	126	267	368	404	0
115°	0	117	243	331	364	0
125°	0	101	216	292	320	0
135°	0	75	174	246	269	0
145°	0	49	122	185	211	0
155°	1	30	75	113	140	1
165°	1	16	34	47	66	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°	802.4	802.4	802.4	802.4	802.4
2.5°	809.7	801.2	805.6	804.5	800.1
5°	807.7	801.2	809.7	809.7	809.7
7.5°	803.3	798.9	810.9	815.3	816.5
10°	796.8	796.8	813.2	819.7	821.7
12.5°	788.1	791.3	813.2	822.9	828.2
15°	778.4	784.8	813.2	828.2	833.8
17.5°	766.4	777.2	810.9	829.4	837.0
20°	752.3	768.7	807.7	829.4	839.3
22.5°	737.1	757.9	803.3	827.3	839.3
25°	721.0	744.7	796.8	825.0	838.1
27.5°	701.3	731.8	789.2	821.7	837.0
30°	681.7	716.6	780.4	817.3	833.8
32.5°	660.0	700.2	769.6	810.9	829.4
35°	637.2	684.1	757.9	804.5	824.1
37.5°	614.3	664.4	745.9	795.7	817.3
40°	589.4	644.8	731.8	784.8	807.7
42.5°	571.0	624.3	716.6	774.0	798.0
45°	536.4	609.1	699.0	759.9	786.0
47.5°	509.2	579.8	681.7	745.9	772.8
50°	491.9	555.7	661.2	729.5	757.9
52.5°	450.6	539.6	641.6	713.3	743.5
55°	434.2	507.1	619.9	695.8	726.2
57.5°	389.6	484.3	598.2	676.4	707.8
60°	368.0	452.6	574.2	656.8	689.3
62.5°	334.3	425.7	550.5	635.1	668.8
65°	297.4	396.4	524.4	614.3	649.2
67.5°	262.8	367.1	499.5	592.7	629.6
70°	229.1	336.6	473.4	571.0	607.9
72.5°	189.8	306.1	448.2	550.5	587.4
75°	156.4	276.8	424.5	528.8	565.7
77.5°	123.6	248.7	401.6	509.2	546.1
80°	93.5	221.5	378.8	488.7	526.4
82.5°	65.0	198.6	358.3	469.0	505.9
85°	40.1	178.1	338.7	448.2	486.3
87.5°	18.5	159.7	319.0	428.9	467.9
90°	2.1	145.6	302.9	412.5	450.6
92.5°	1.2	141.2	296.5	404.9	441.8
95°	0.0	136.8	293.2	400.5	437.4
97.5°	0.0	132.4	285.6	394.0	432.1
100°	0.0	130.4	280.1	384.4	421.3
102.5°	0.0	127.1	273.6	375.6	412.5
105°	0.0	126.0	267.2	368.0	404.0
107.5°	0.0	123.6	260.4	358.3	394.0
110°	0.0	121.6	255.2	349.5	384.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	119.5	249.6	341.0	374.4
115°	0.0	117.2	243.2	331.0	363.6
117.5°	0.0	114.0	236.7	321.4	353.9
120°	0.0	109.6	230.3	312.6	343.1
122.5°	0.0	105.2	223.5	301.7	331.0
125°	0.0	101.1	215.9	292.1	320.2
127.5°	0.0	94.3	207.4	281.2	307.3
130°	0.0	87.9	196.6	270.4	295.3
132.5°	1.2	81.4	185.7	258.4	283.3
135°	0.0	75.0	173.7	246.4	269.2
137.5°	0.0	69.4	160.5	233.5	255.2
140°	0.0	63.0	147.6	218.3	241.1
142.5°	0.0	55.4	134.8	201.8	225.9
145°	0.0	48.9	121.6	184.6	210.6
147.5°	1.2	43.4	109.6	166.1	194.2
150°	1.2	39.0	97.8	147.6	175.8
152.5°	1.2	34.9	85.8	130.4	157.3
155°	1.2	30.5	75.0	112.8	140.0
157.5°	1.2	26.1	63.0	95.5	121.6
160°	1.2	22.9	52.1	80.3	104.3
162.5°	1.2	19.6	42.5	63.0	85.8
165°	1.2	16.4	33.7	46.6	66.2
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)