

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: P284755

Luminaire Tested: **8SNLED-LD5-70SL-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: P284755
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-LD5-70SL-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: 6404.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

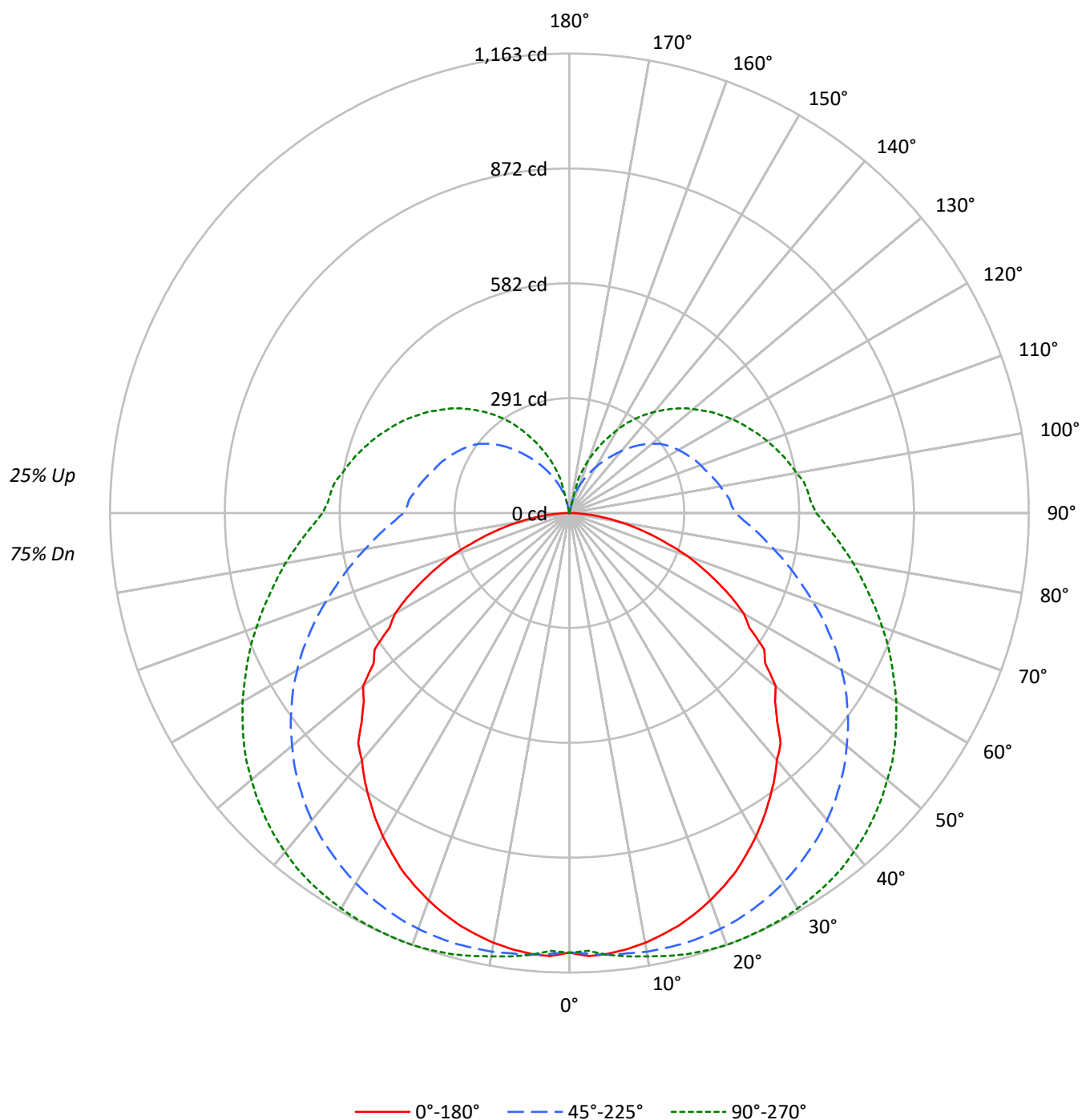
Input Watts (W): 61
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4494	4494	4494
5°	4535	4445	4408
10°	4519	4410	4383
15°	4495	4390	4393
20°	4458	4374	4401
25°	4423	4362	4408
30°	4369	4352	4432
35°	4309	4341	4462
40°	4254	4343	4491
45°	4183	4337	4526
50°	4207	4333	4562
55°	4147	4340	4617
60°	4013	4349	4679
65°	3813	4363	4767
70°	3598	4406	4900
75°	3198	4521	5098
80°	2768	4758	5427
85°	2187	5231	5907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	1.7
10°-20°	316.8	4.9
20°-30°	503.5	7.9
30°-40°	646.2	10.1
40°-50°	729.7	11.4
50°-60°	744.6	11.6
60°-70°	689.8	10.8
70°-80°	584.0	9.1
80°-90°	466.2	7.3
90°-100°	395.9	6.2
100°-110°	352.7	5.5
110°-120°	300.4	4.7
120°-130°	238.6	3.7
130°-140°	169.3	2.6
140°-150°	101.1	1.6
150°-160°	47.1	0.7
160°-170°	11.2	0.2
170°-180°	0.0	0.0
0°-30°	927.2	14.5
0°-40°	1573.4	24.6
0°-60°	3047.8	47.6
0°-90°	4787.8	74.8
90°-120°	1049.0	16.4
90°-150°	1557.9	24.3
90°-180°	1616.0	25.2
0°-180°	6404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1120	1111	1122	1122	1122	106
15°	1079	1088	1127	1148	1156	304
25°	999	1032	1104	1144	1162	460
35°	883	948	1050	1115	1142	553
45°	744	844	969	1053	1090	577
55°	602	703	859	964	1007	528
65°	412	549	727	852	900	409
75°	217	384	588	733	784	231
85°	56	247	469	621	674	61
90°	3	202	420	572	625	4
95°	0	190	406	555	606	0
105°	0	175	370	510	560	0
115°	0	162	337	459	504	0
125°	0	140	299	405	444	0
135°	0	104	241	342	373	0
145°	0	68	168	256	292	1
155°	2	42	104	156	194	1
165°	2	23	47	65	92	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°	1112.3	1112.3	1112.3	1112.3	1112.3
2.5°	1122.4	1110.6	1116.7	1115.1	1109.0
5°	1119.6	1110.6	1122.4	1122.4	1122.4
7.5°	1113.5	1107.4	1124.0	1130.1	1131.7
10°	1104.5	1104.5	1127.3	1136.2	1139.1
12.5°	1092.4	1096.8	1127.3	1140.7	1148.0
15°	1079.0	1087.9	1127.3	1148.0	1155.7
17.5°	1062.3	1077.3	1124.0	1149.6	1160.2
20°	1042.8	1065.6	1119.6	1149.6	1163.4
22.5°	1021.7	1050.5	1113.5	1146.8	1163.4
25°	999.4	1032.3	1104.5	1143.5	1161.8
27.5°	972.2	1014.4	1094.0	1139.1	1160.2
30°	944.9	993.3	1081.8	1133.0	1155.7
32.5°	914.9	970.5	1066.8	1124.0	1149.6
35°	883.2	948.2	1050.5	1115.1	1142.3
37.5°	851.6	921.0	1033.9	1102.9	1133.0
40°	817.0	893.8	1014.4	1087.9	1119.6
42.5°	791.5	865.4	993.3	1072.9	1106.2
45°	743.5	844.2	968.9	1053.4	1089.5
47.5°	705.8	803.6	944.9	1033.9	1071.2
50°	681.8	770.3	916.5	1011.1	1050.5
52.5°	624.6	748.0	889.3	988.8	1030.6
55°	601.8	702.9	859.3	964.4	1006.7
57.5°	540.1	671.3	829.2	937.6	981.1
60°	510.0	627.4	795.9	910.4	955.5
62.5°	463.3	590.0	763.0	880.4	927.1
65°	412.2	549.4	726.9	851.6	899.9
67.5°	364.3	508.8	692.4	821.5	872.7
70°	317.6	466.6	656.2	791.5	842.6
72.5°	263.1	424.4	621.3	763.0	814.2
75°	216.8	383.7	588.4	733.0	784.1
77.5°	171.4	344.8	556.7	705.8	756.9
80°	129.5	307.0	525.1	677.3	729.7
82.5°	90.1	275.3	496.6	650.1	701.3
85°	55.6	246.9	469.4	621.3	674.1
87.5°	25.6	221.3	442.2	594.5	648.5
90°	2.8	201.8	419.9	571.8	624.6
92.5°	1.6	195.7	411.0	561.2	612.4
95°	0.0	189.6	406.5	555.1	606.3
97.5°	0.0	183.5	395.9	546.2	599.0
100°	0.0	180.7	388.2	532.8	583.9
102.5°	0.0	176.2	379.3	520.6	571.8
105°	0.0	174.6	370.3	510.0	560.0
107.5°	0.0	171.4	361.0	496.6	546.2
110°	0.0	168.5	353.7	484.5	532.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	165.7	346.0	472.7	519.0
115°	0.0	162.4	337.0	458.9	503.9
117.5°	0.0	158.0	328.1	445.5	490.5
120°	0.0	151.9	319.2	433.3	475.5
122.5°	0.0	145.8	309.8	418.3	458.9
125°	0.0	140.1	299.3	404.9	443.8
127.5°	0.0	130.8	287.5	389.8	426.0
130°	0.0	121.8	272.5	374.8	409.3
132.5°	1.6	112.9	257.5	358.2	392.7
135°	0.0	104.0	240.8	341.5	373.2
137.5°	0.0	96.2	222.5	323.6	353.7
140°	0.0	87.3	204.7	302.5	334.2
142.5°	0.0	76.7	186.8	279.8	313.1
145°	0.0	67.8	168.5	255.8	292.0
147.5°	1.6	60.1	151.9	230.2	269.2
150°	1.6	54.0	135.6	204.7	243.6
152.5°	1.6	48.3	119.0	180.7	218.1
155°	1.6	42.2	104.0	156.3	194.1
157.5°	1.6	36.1	87.3	132.4	168.5
160°	1.6	31.7	72.3	111.3	144.6
162.5°	1.6	27.2	58.9	87.3	119.0
165°	1.6	22.7	46.7	64.6	91.8
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)